EYE ON

*Digital Surveillance Solution*

# ```HYC DVR User Manual

# Content


| Main Function | Setup Features | Page |
|---|---|---|
| Major Features | | 5 |
| Major Application Sites | | 6 |
| System Components | | 7 |
| System Specification | | 8 |
| Board Specification | Board Specification/System Configuration | 9~10 |
| | **System Description and External Parts Connection** | 10 |
| Live View | Live Monitoring Window | 11 |
| | Log In/out | 12 |
| | Automatic Log Out | 13 |
| | Control Live View Screen | 14~15 |
| | Setup <Initial Screen Display>(Default Screen) | 16~18 |
| | Description of each Icon in Live Screen Window | 19~22 |
| | How to use Audio/Audio Setup/Audio in Live View | 23~26 |
| | Alarm In/Out (How to connect Sensor/Relay) | 27~29 |
| | Alarm In/Out (How to Setup Sensor/Relay) | 30 |
| | Alarm In/Out (How to Setup Relay Schedule) | 31~32 |
| | Alarm In/Out (Check the working Status) | 33 |
| | How to control Image Quality | 34 |
| | System Information and Manual Backup and LogViewer | 35 |
| | System Information | 36 |

# Content


| Main Function | Setup Features | Page |
|---|---|---|
| Live View | LogViewer | 37 |
| | How to setup Camera Name and OSD | 38~39 |
| | Covert Camera (Hide Screen) | 40 |
| | PTZ Control : PTZ Control Devices | 41 |
| | PTZ Control : How to use EIO USB Serial Converter | 42 |
| | PTZ Control : How to use DI/DO Serial Converter | 43 |
| | PTZ Control : How to Setup | 44 |
| | PTZ Control : How to control PTZ camera | 45~46 |
| | PTZ Control : Preset | 47 |
| | PTZ Control : Touring | 48~49 |
| Search & Playback | How to use <Instant Playback> and <Instant Playback Player> | 50 |
| | How to use <Search and Playback> | 51 |
| | 1CH Search/Multi Screen Search | 52~54 |
| | Combination Search/Panorama Search | 55~56 |
| | Zoom/Book Mark/Area Zoom/Print Image | 57~60 |
| | Smart Search/Save as <Jpeg & AVI> file | 61~67 |
| | Backup in CD/DVD/Image Tool | 68~69 |
| Backup | Manual /Schedule/Concurrent Backup | 70~74 |
| System Setup | General DVR System Setup | 75~76 |
| | Port Setup | 77 |

# Content


| Main Function | Setup Features | Page |
|---|---|---|
| System Setup | Direct Web | 78 |
| | IP product Setup | 79~82 |
| | Setup DVR in Dynamic IP(DIMS) | 83~84 |
| | DIMS and WEB DVR | 85~89 |
| System Setup : Device Setup | Device Setup | 90~91 |
| | Device Setup, Motion Recording, Recording Schedule | 92~95 |
| | Holiday Recording Schedule/Sensor/Relay, TDS Setup | 96, 97~98,99~100 |
| System Setup : Display Setup | Display Setup/TV-Out | 101~103 |
| System Setup : Event Setup | Event Setup/Motion Notify Setup | 104~106 |
| | Sensor Notify/ Remote Notify | 107~111 |
| | CMS Setup/Working | 112~115 |
| System Setup : User Setup | User Management Setup | 116~117 |
| Appendix | 1. Image Analyst | 118~119 |
| | 2. How to setup and use IP Router/Linksys Router | 120~123 |
| | 3. Recover <ImageDB> | 124~125 |
| | 4. Direct Backup | 126 |
| | 5. Copy Data files | 127 |
| | 6./7. How to use 2-Way Audio | 128~135 |
| | 8. Go out to Window Mode | 136 |
| | 9. DVR SW and Folder description | 137 |

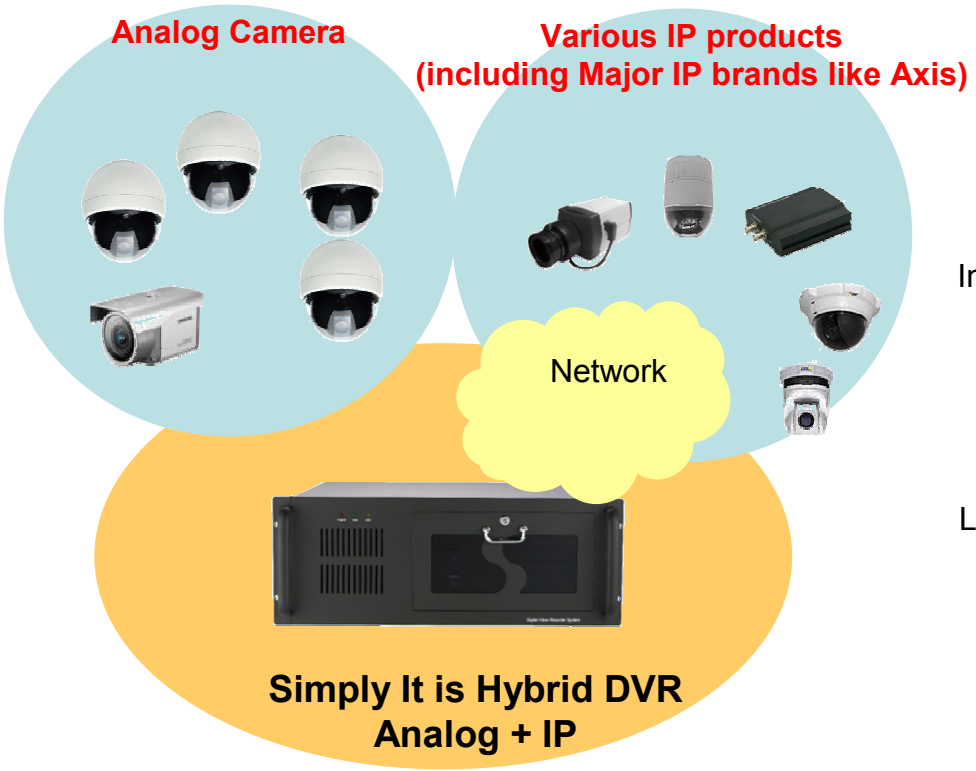
# Content


| Main Function | Setup Features | Page |
|---|---|---|
| Appendix | 10. Exe File Description | 138~140 |

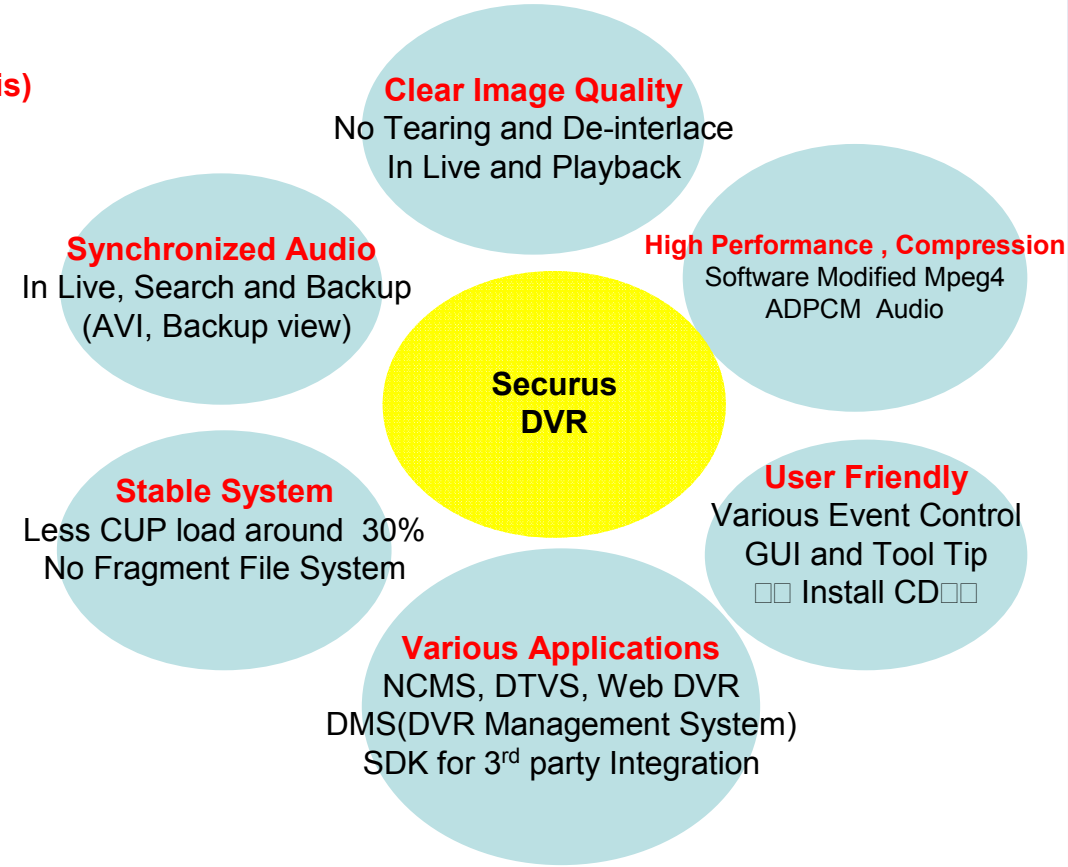
# Major Features

## Major feature of Securus Hybrid DVR

Differences between ordinary PC DVR and Securus PC DVR




Major Features of Securus PC DVR



# Major Application Sites

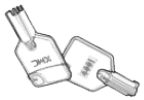
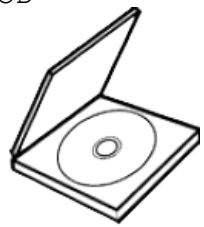
## Applied Areas

Not only Recoding through Analogue data but also using powerful Network and IP Functions, users can apply this to various sites like below.

| Applied Areas for Securus Hybrid DVR | | | |
|---|---|---|---|
| | Parking Lot, Building Management,<br>Unattended Controlling Center, Factory Line Surveillance<br>Access Control, etc | | Chain Store, Convenient Shop, Super Market, Big restaurant, Gas Station.<br><br>* Can integrate with POS (Point of Sales) |
| | IBM, Apartment Management,<br>, etc | | Bank, Automatic Devices , Public and GOV building and project<br><br>* Can integrate with ATM (Auto Teller Machine in Bank) |
| Mobile Surveillance | PDA , Smart phone Viewer | | |

# System Components

## DVR Set Components

| | |
|---|---|
| DVR System (1SET)<br> | Power Cable / KEY<br> <br>  |
| User Manual<br> | Screws<br> |
| Installation CD<br>-Manual<br>-Driver<br>-Setup S/W<br>-Others<br>  | Keyboard/ Mouse<br> <br> |
| OS License Level( Windows XP or 2000 )<br>Others components( Different according to System) | |

# System Specification

## Board Specification

| Video/Audio/Alarm | | HYR1216 | HYR1216 | HYC1216 | HYC2416 | HYR4816 | HYC2432 | HYR4832 |
|---|---|---|---|---|---|---|---|---|
| Signal System | | NTSC/PAL | | | | | | |
| Video Input | Total | 16 | 16 | 20 | 20 | 20 | 36 | 36 |
| | Analog | Max 16 | Max 16 | Max 16 | Max 16 | Max 16 | Max 32 | Max 32 |
| | IP | Max 4 | Max 4 | Max 4 | Max 4 | Max 4 | Max 4 | Max 4 |
| Monitor Output | VGA | VGA | | | | | | |
| | General(TV Out) Composite | 1 Port (sequence only) | 1 Port (sequence only) | 1 Port (sequence only) | 1 Port (sequence only) | 1 Port (sequence only) | 4 Port (sequence only) | 4 Port (sequence only) |
| | Option(4ch TV-Out) Composite | 4 Port (sequence only) | 4 Port (sequence only) | 4 Port (sequence only) | 4 Port (sequence only) | 4 Port (sequence only) | - | - |
| Loop-Out | | | | | | | | |
| Screen Division | | 1,4,6,9,10,16,21,25,36,Channel Switching(Manual/Auto),Full Screen | | | | | | |
| Resolution (NTSC/ PAL) | | 352x240/352x288, 704x240/704x288, 704x480/704x576 | | | | 360x240/360x288,720x240/720x288, 720x480/720x576 | | |
| Audio(Default/Option) | | 2/16 | | | | 16/16 | 16/32 | |
| Alarm | Input (Default/Option) | 4/16 Port | | | | | | |
| | Output | 4 Port | | | | | | |
| Available IP Products | | SNT/ Axis/ Vivotek/JVC/Canon/Panasonic/Sony (others can be added on demand) | | | | | | |

# System Specification

## System Configuration

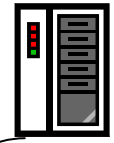
Analog Camera

Max 32CH

IP Cameras or Video Server

Max 8CH
Now Available
Our Own + Vivotek + Axis

HYBRID DVR



(Option) Storage Server (NAS or DAS)

PDA Viewer (in Wireless LAN)

Web DVR (Support Dynamic IP)
Remote Live/Search/PTZ Control

Network
LAN/WAN

Remote Client (NCMS Lite)
Remote Live/Search/Setup
/Simultaneous Multi DVRs connection

Remote Client
(NCMS Pro)

Plus
E-Map/Event Scenario
/Health Checking
(Option)

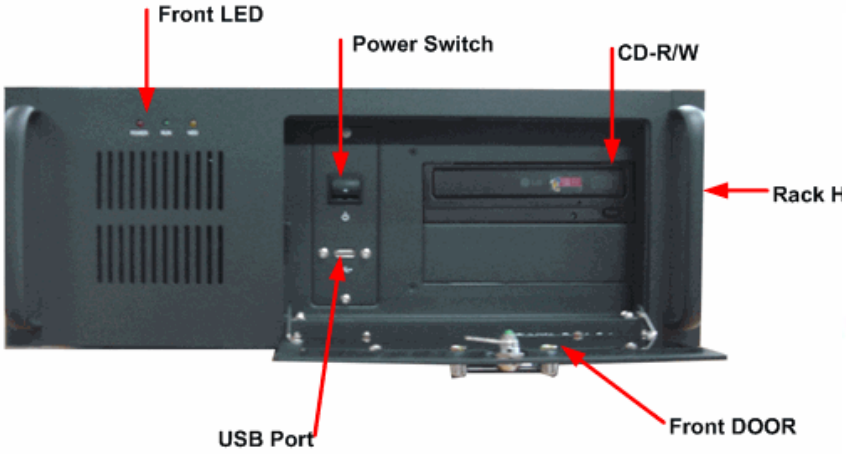
Analog

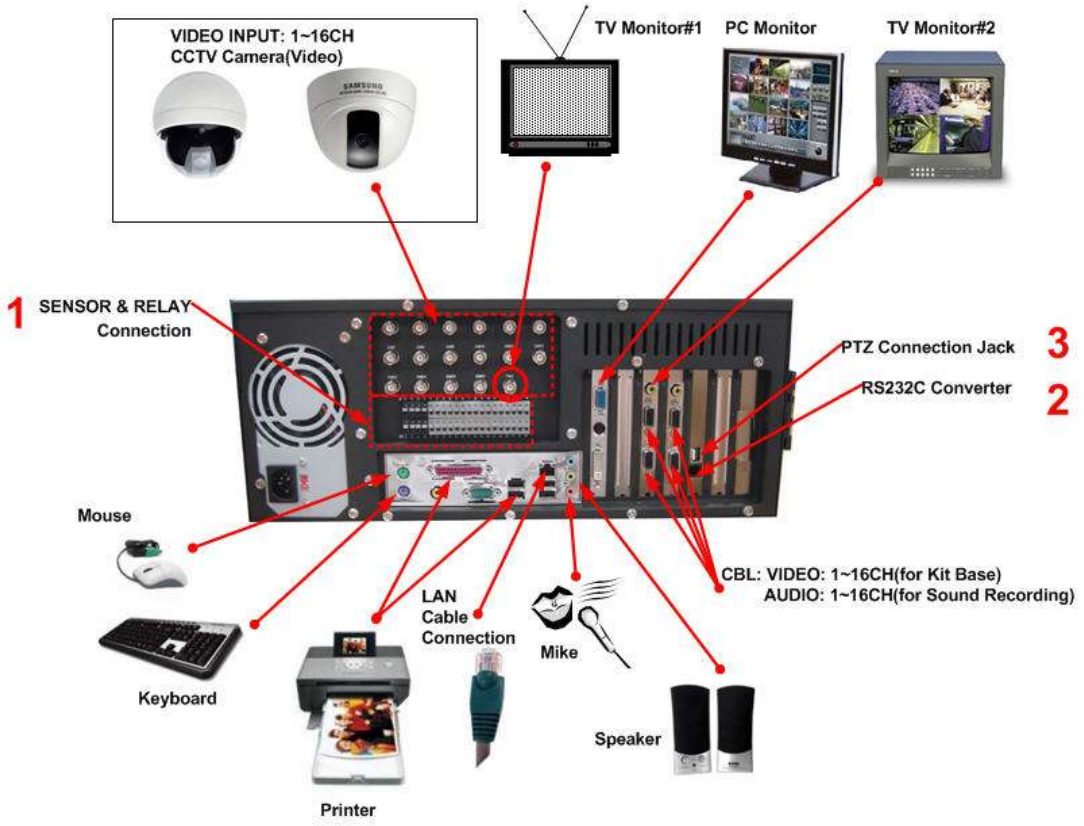
IP (TCP/IP)

# System Specification

## System Description and External Parts Connection

1. Connect External Parts with DVR (Camera, monitor, K/B, mouse, etc)




2. Power Connection

<NB> Before power connection, please check <110Vac/ or 220Vac>.

3. Power on Front Panel

4. Check DVR is running rightly.

# Live View

## Live Monitoring View

# Live View

## Log In/Log Out

**Default Account**

**ID: admin**
**Password: 1111**

**Virtual Keyboard**

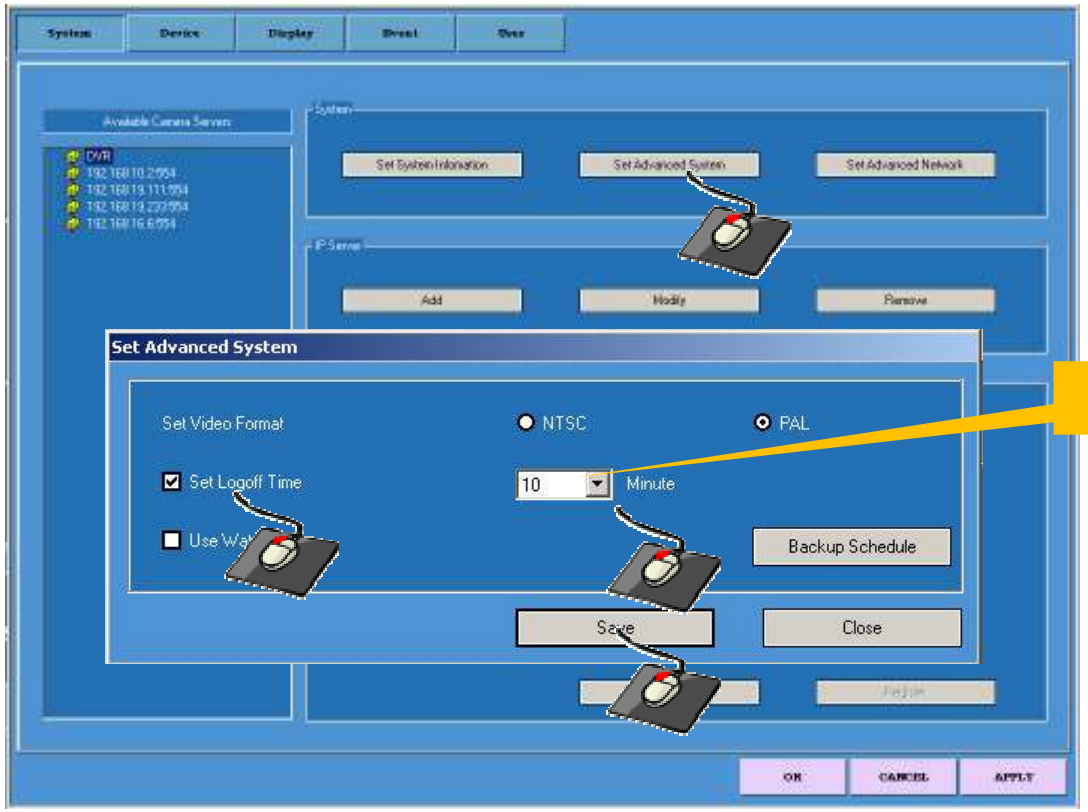
**<N.B > Factory Default account is for administrator.**
**So we recommend to setup new <account and password> in"Setup"=>"User" and delete default account**
**(To delete default <admin> account, must setup new account as <Administrator >)**

# Live View

## Automatic Log-out

Go to <Setting => System=> Set advance system>

When setup <Log Out Time>, users log out automatically after setup <log-out> time.
(This applies only there is no operation in <Live  Monitoring Window> during  setup <log-out> time.)

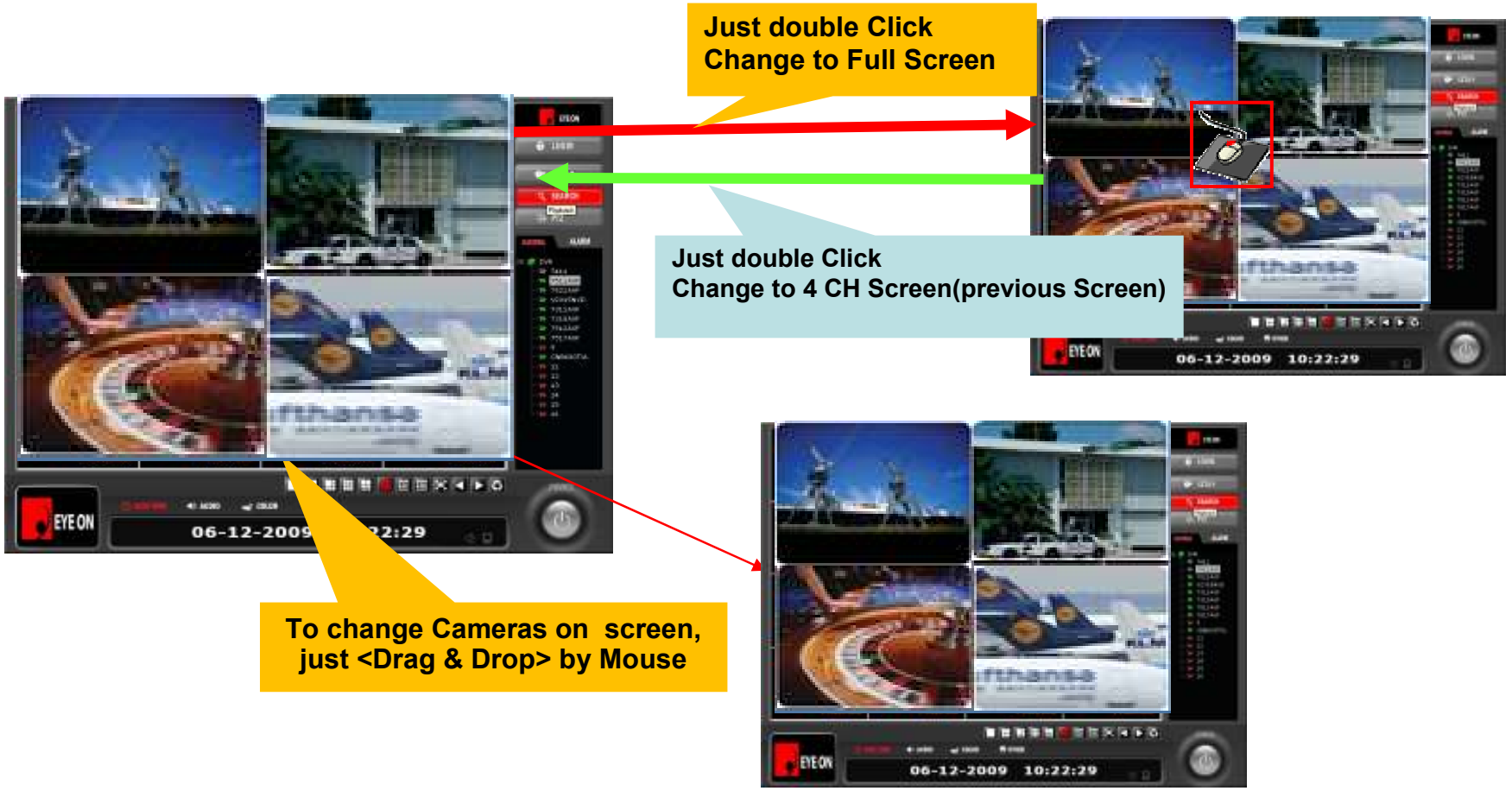



<N.B > When this <Log-Out> time is not <check-in>, users can operate DVR without more <Log-In>. But this means user have to click <Log-In> Icon to <Log-out> again.

# Live View

## Control <Live View Screen>

Users can manage <Live View Screen> just by <Drag & Drop>



# Live View

## Control <Live View Screen Division>

Various Screen Division and Easy Control

| Function | Button |
|---|---|
| Screen Division | |
| Full Screen | |
| Manual Page Change | |
| Automatic Page Change | |

**Page Change (Go to Next Cameras in 4CH Division)**

1 CH

4 CH

36CH

# Live View

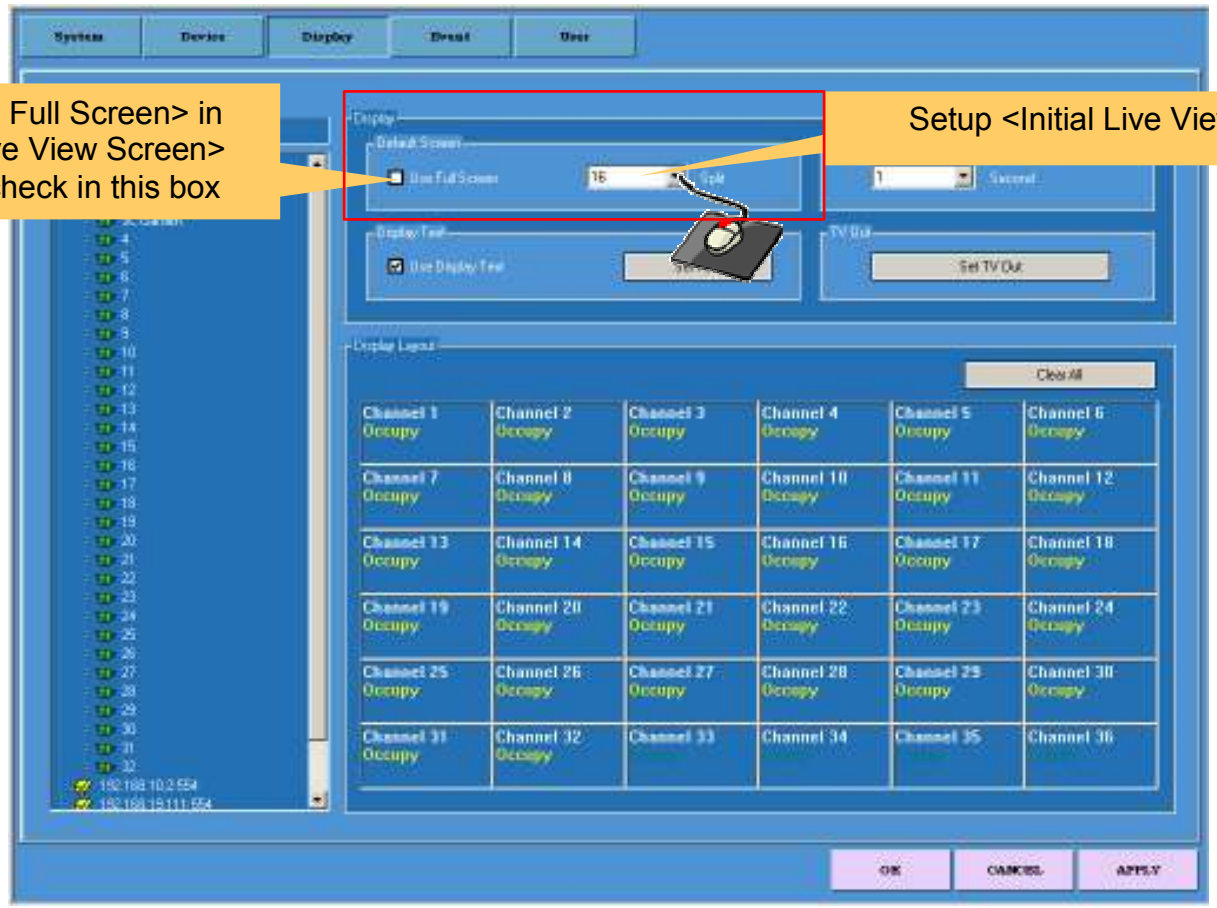
## Setup <Initial Screen Display> (Default Screen)

SETUP

Go to <Setup => Display=> Default Screen>

To show< Full Screen> in Initial <Live View Screen> , please check in this box

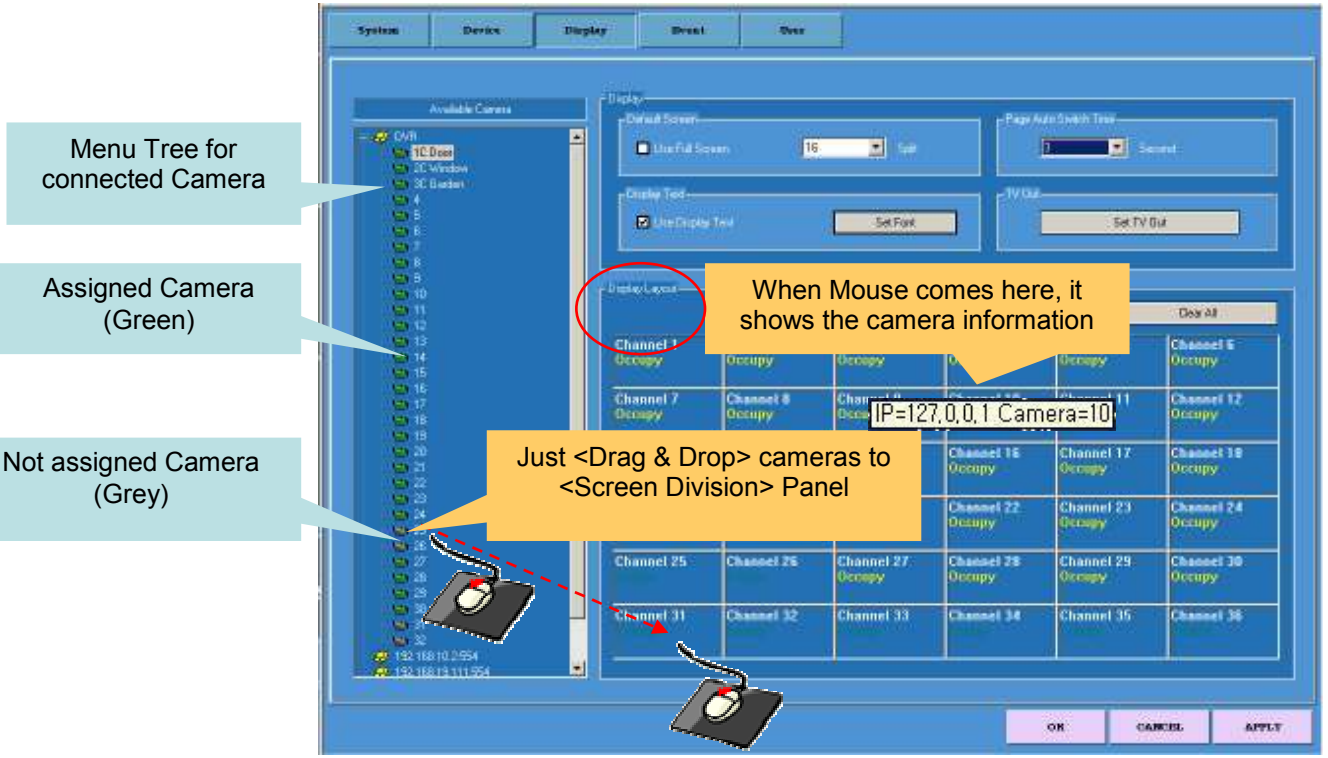
Setup <Initial Live View Screen Display Division>



# Live View

## Setup <Initial Screen Display> (Default Screen)

Users can assign cameras to wanted <Screen Division Panel> without the restrict of camera sequence .

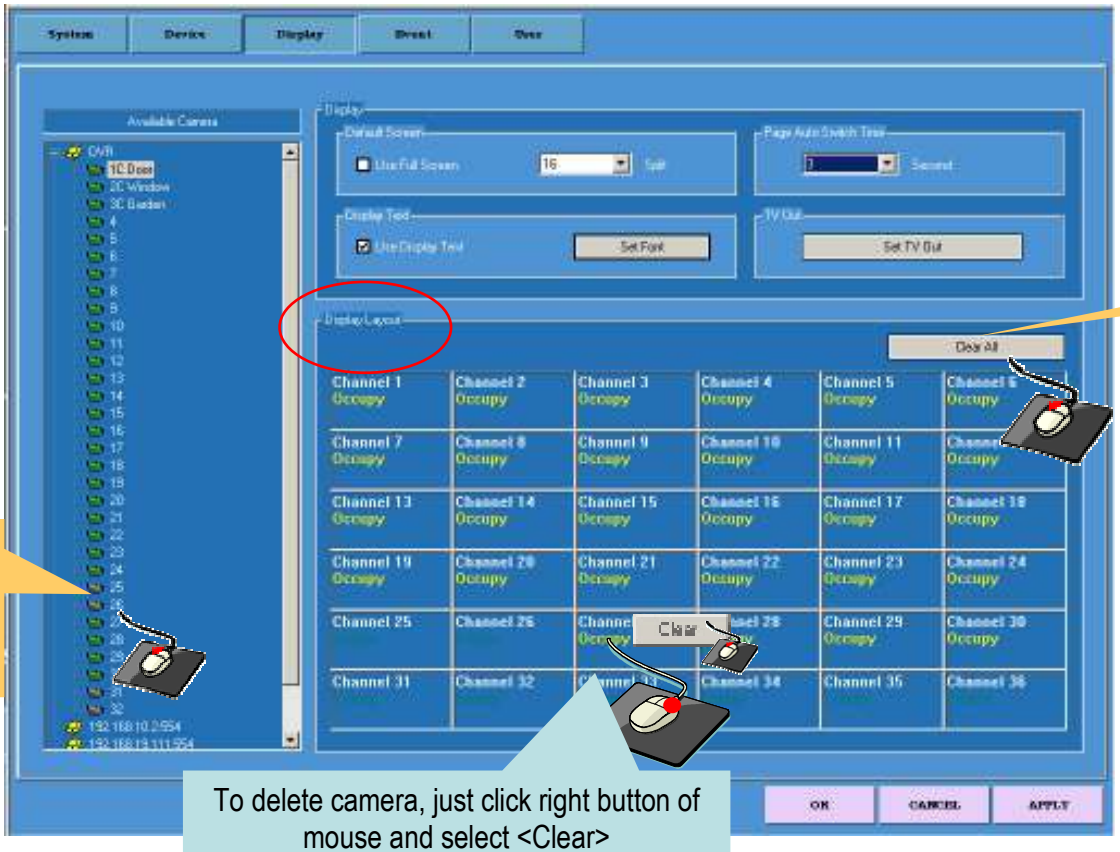



**<NB>When some cameras are not assigned , those are not shown in <Live View Screen>, but DVR does recording those cameras.**
**Moreover, if users use HYR BD, TV-Out does not show those cameras.**

# Live View

## Setup <Initial Screen Display> (Default Screen)

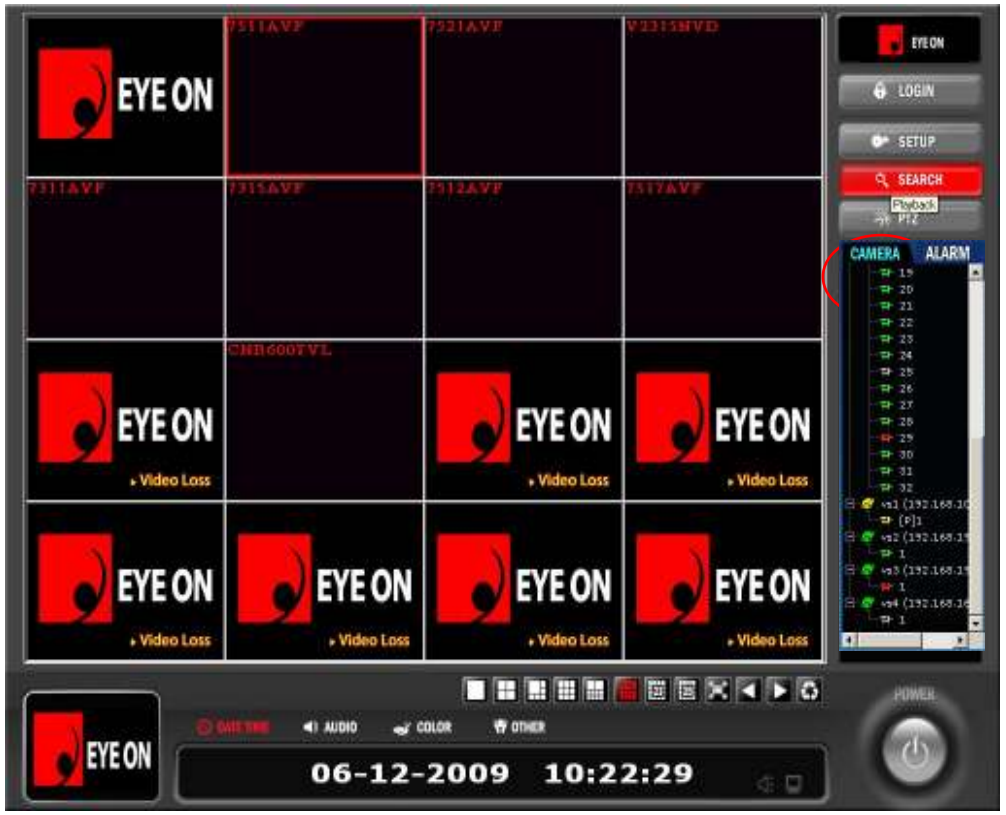
Users can delete cameras in <Default Screen Division>.

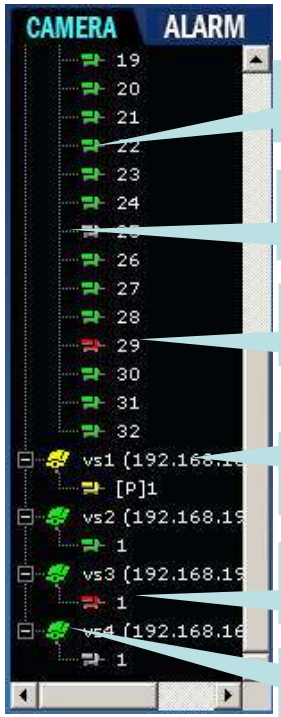


# Live View

## Description of each  icon of <Live Screen Window>

It shows each information of connect cameras and IP products




Rightly assigned Camera (Green)

Not assigned Camera (Grey)

Video Loss (Red)

Reconnecting IP products (Yellow)

Video Loss (Red)

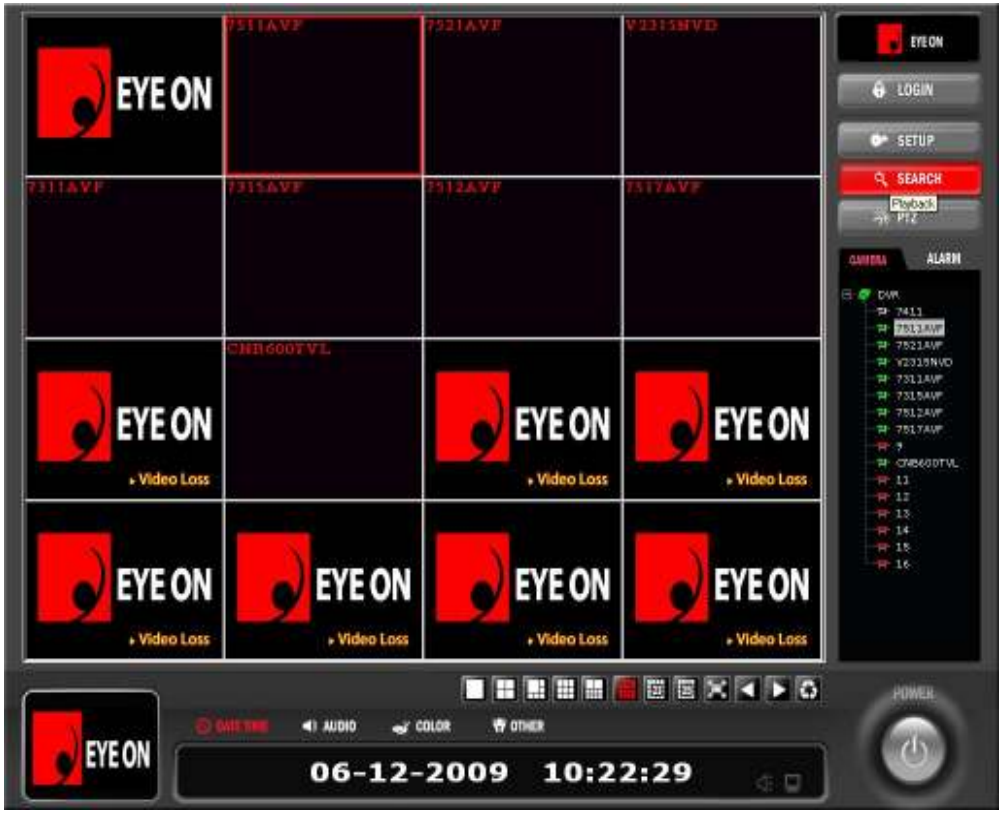
Rightly assigned Camera (Green)

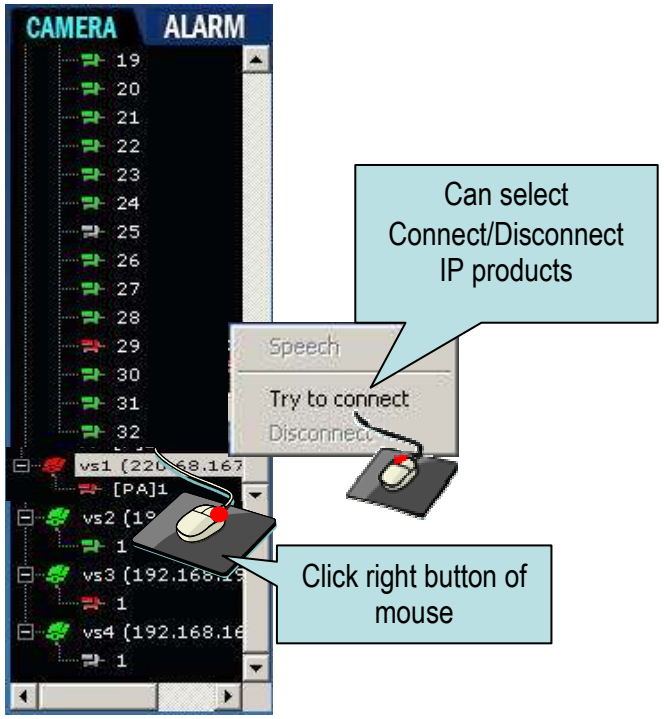
Disconnected IP products (Red)

# Live View

## Description of each icon of <Live Screen Window>

Can check and control of IP products status and connection in Live Window Menu Tree



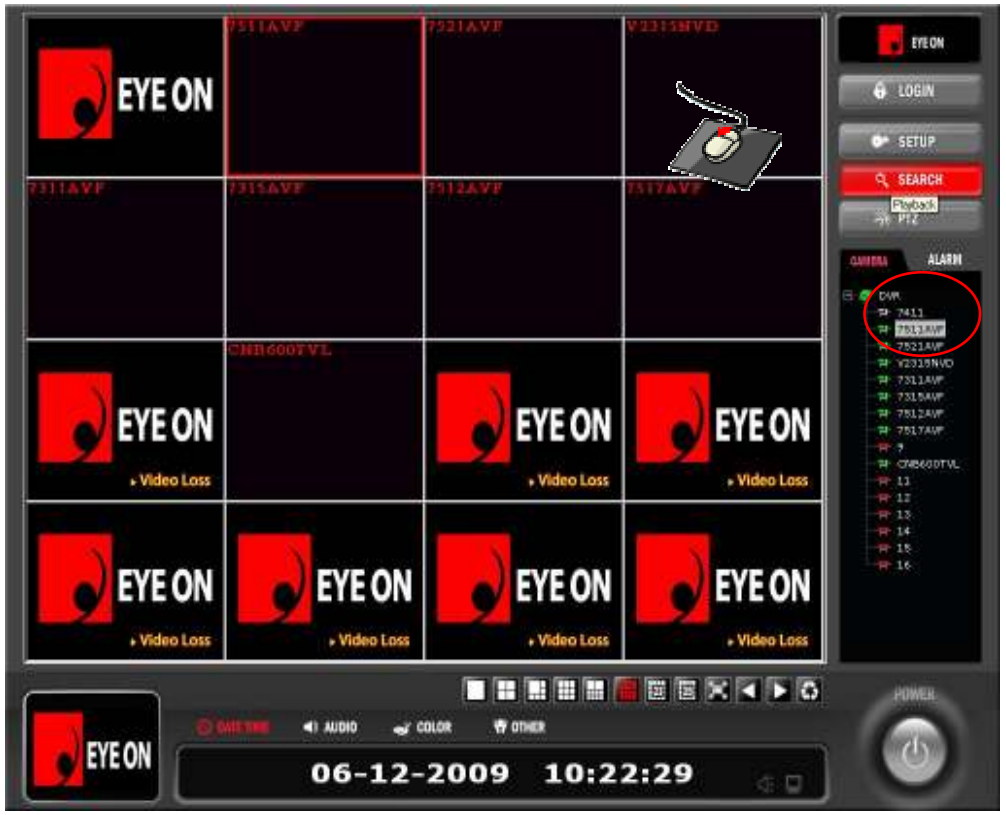



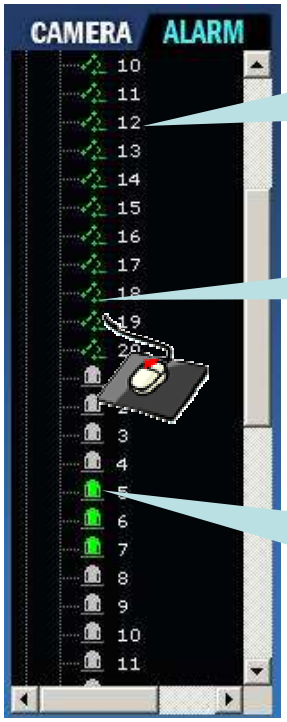

When Network is disconnect, DVR tries to connect 3 times for certain time, after this time DVR does not try anymore.

# Live View

## Description of each icon of <Live Screen Window>

It shows Sensor and Alarm status and Relay control




Relay Control
Green: ON
Grey: OFF

Can control Relay on/off by double clicking

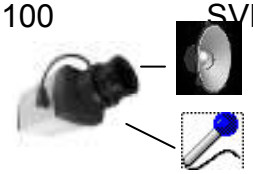
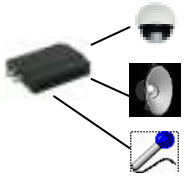
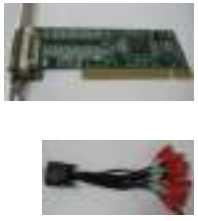
Alarm Status
Grey: No Action.
Green: Alarm in Action

# Live View

## How to use Audio

To use <Audio> from each device for Recording and Live View. (DVR Board  supports Audio)

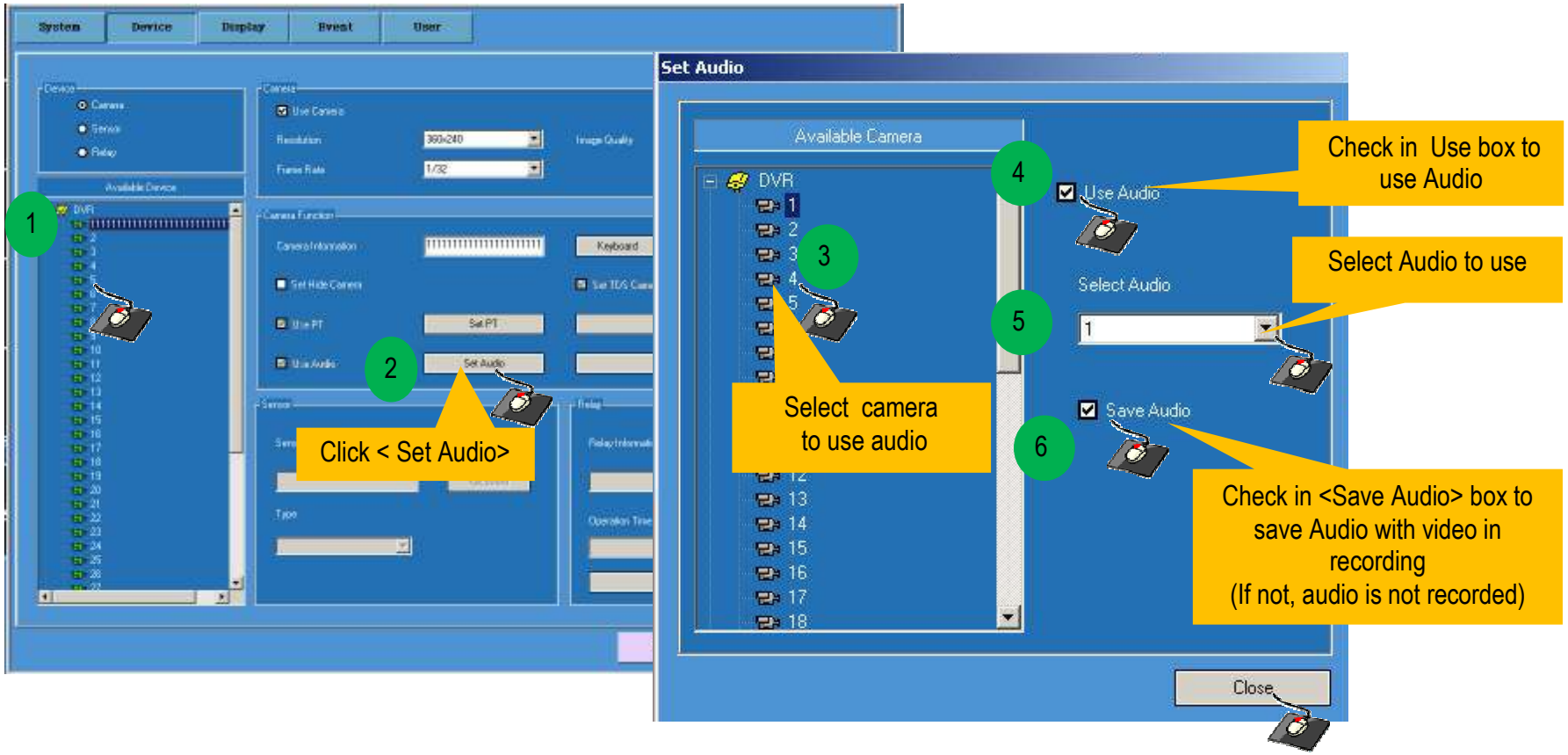
Prepared Things to use Audio (N.B Different things to be prepared according to Model)

| | | | | |
|---|---|---|---|---|
| DVR system | DVR | | SIPC1100  | SVE1000  |
| Cable and Audio bracket | Audio2 | Audio 16 | Audio 16 | Audio16  |
| Available | HYC1216, HYC2416, HYR1216, HYR2416 | HYC2432, HYR4832 | SDR4816 | HYC2416, HYR1216, HYR2416 |
| Input Type | Sound card line Input | Audio in to DVR BD | | Input through Extra BD |

# Live View

## Audio Setup

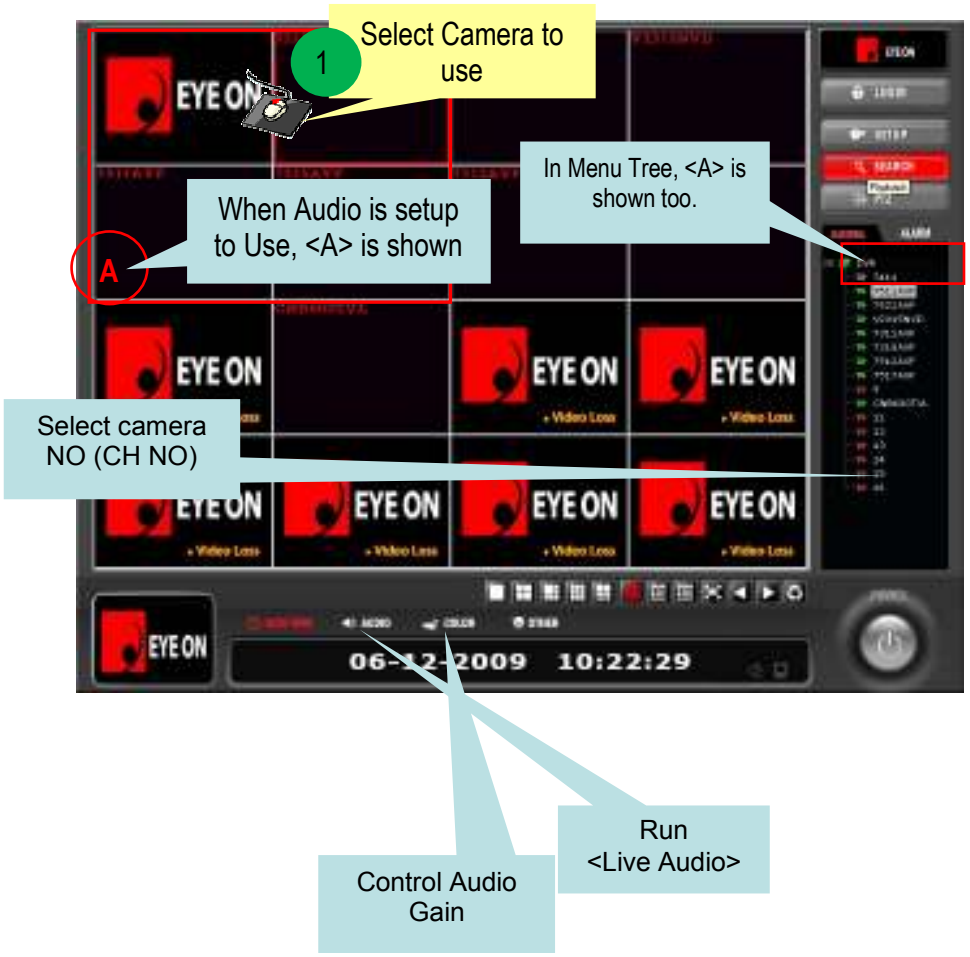
Go to <Setup => Device>



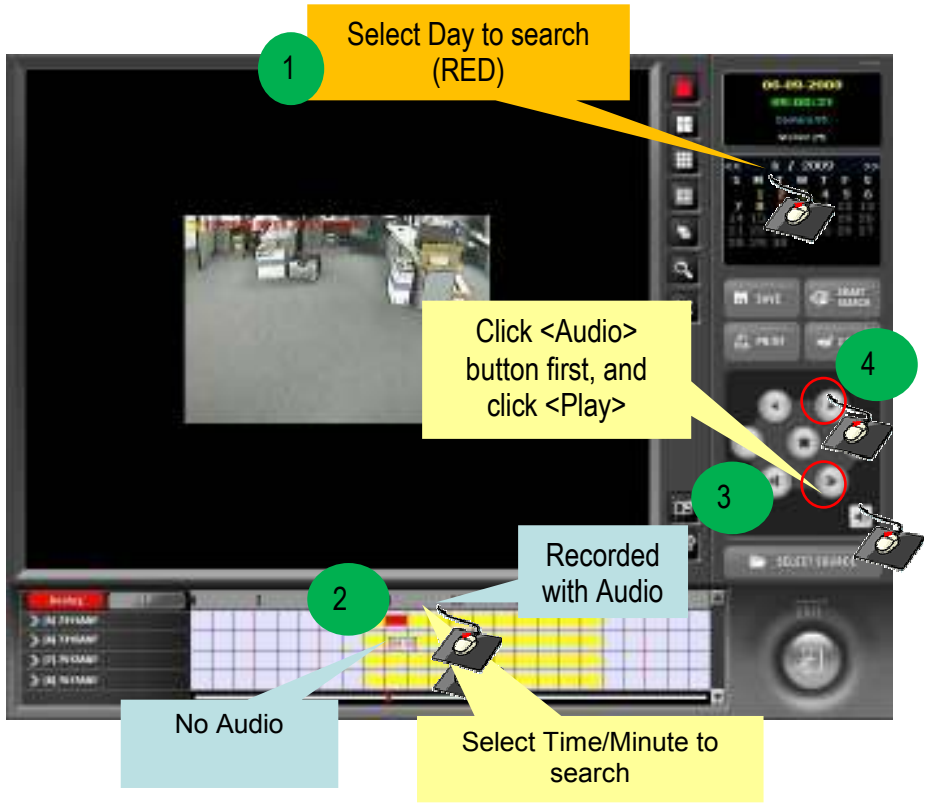
# Live View

## How to use Audio in <Live View> and <Playback>

### <Live Audio>




### <Search Recorded Data with Audio>




<N.B> <Darker> color indicates <Recorded with Audio>

# Live View

## How to use Audio in <Live View>

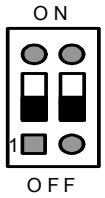
Check <Live Audio> Status

Check the <:Live Audio> button

# Live View

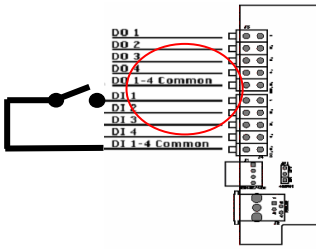
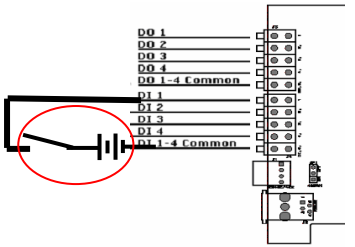
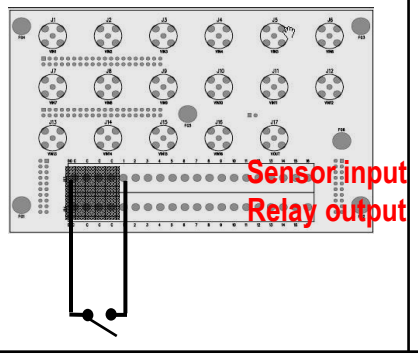
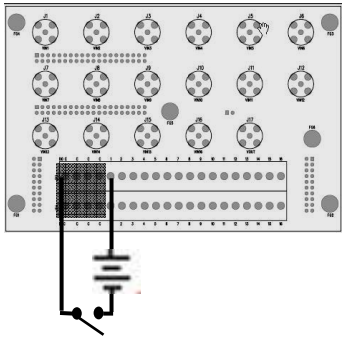
## Alarm In/Out : How to connect Sensor & Relay

Connect Sensors with DVR system




| DI Interface Type | RELAY | VOLTAGE |
|---|---|---|
| DI_TYPE value | 1 | 0 |
| Switch(SW2)*1 | ON,ON | OFF,OFF |
| External Action | Metallic contact | Voltage level |
| Isolation | X | O |

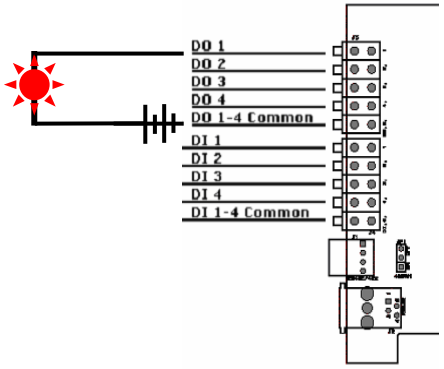
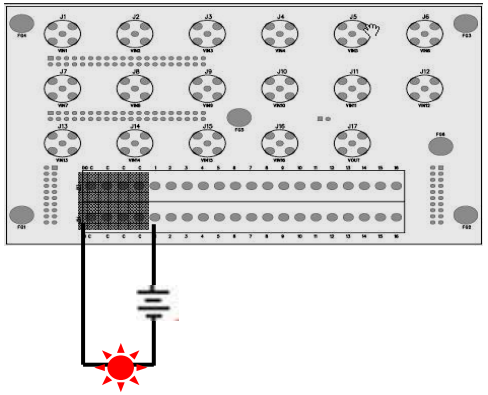
<N.B> Default setting is <Relay Type>

| Item | Relay Interface | Voltage Interface |
|---|---|---|
| KIT |   |   |
| SET |   |  |
| Available Model | HYC2416,HYR4832 | |

# Live View

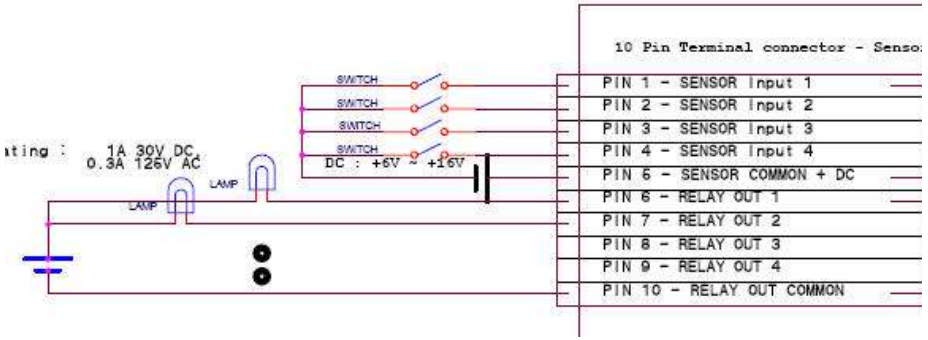
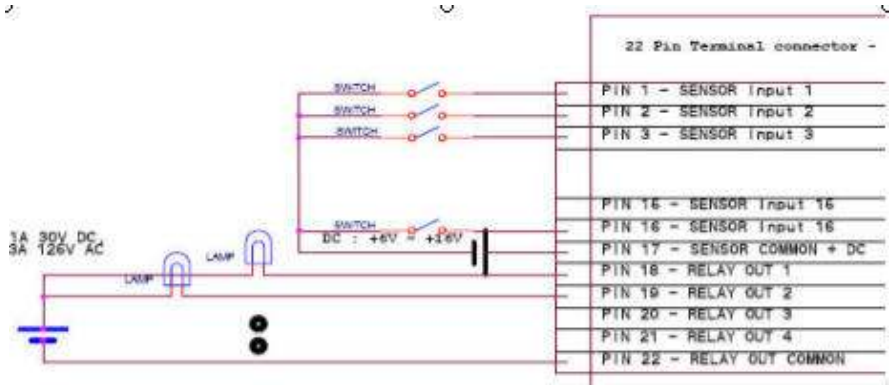
## Alarm In/Out : How to connect Sensor & Relay

Can control external device and transmit signal to Alarm

| KIT | SET |
| --- | --- |
|  |  |

# Live View

## Alarm In/Out : How to connect Sensor & Relay

| Item | Voltage Interface |
|---|---|
| DIO0404 |   |
| DIO1604 |   |
| Available BD Model | HYC1216,HYC2416,HYR1216,HYR2416 |

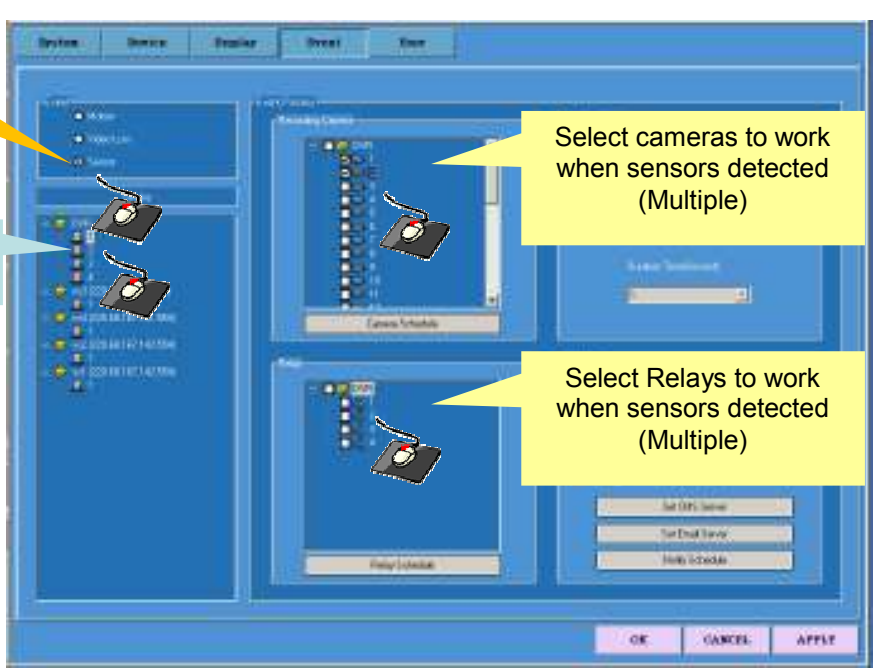
# Live View

## Alarm In/Out : How to setup Sensor & Relay

SETUP

Go to <Setup =>Device=> Sensor>

Go to <Setup =>Event>




<N.B> NC : Normal Close
NO : Normal Open

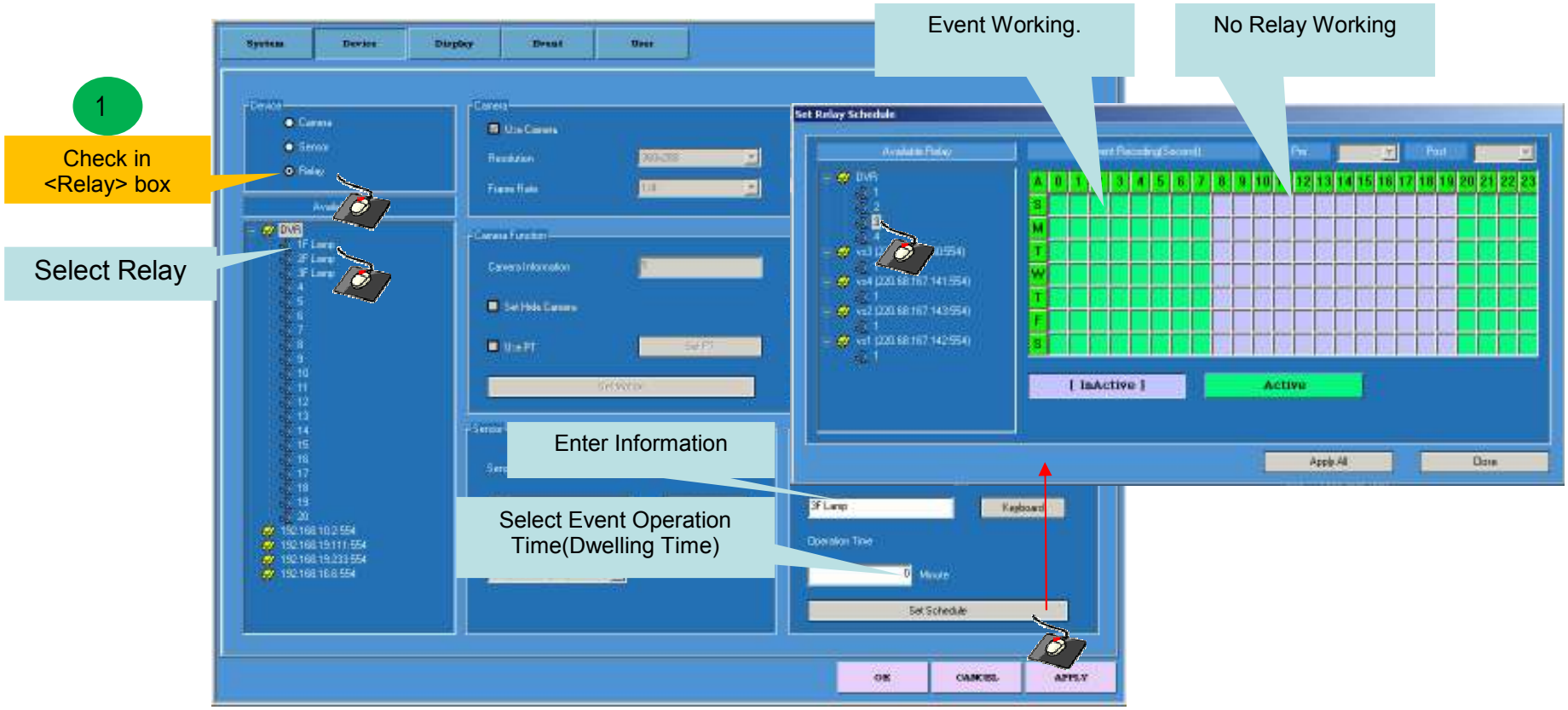
<N.B> Ex, users can setup cameras No. 1.2 and Relays No. 1, 2, 3 to work when sensor detected1 sensor.
Multiple cameras and relays can be selected

# Live View

## Alarm In/Out : How to Setup <Relay Schedule>

### Setup Relay Schedule

Can setup <Relay Schedule> to work in certain time range.)

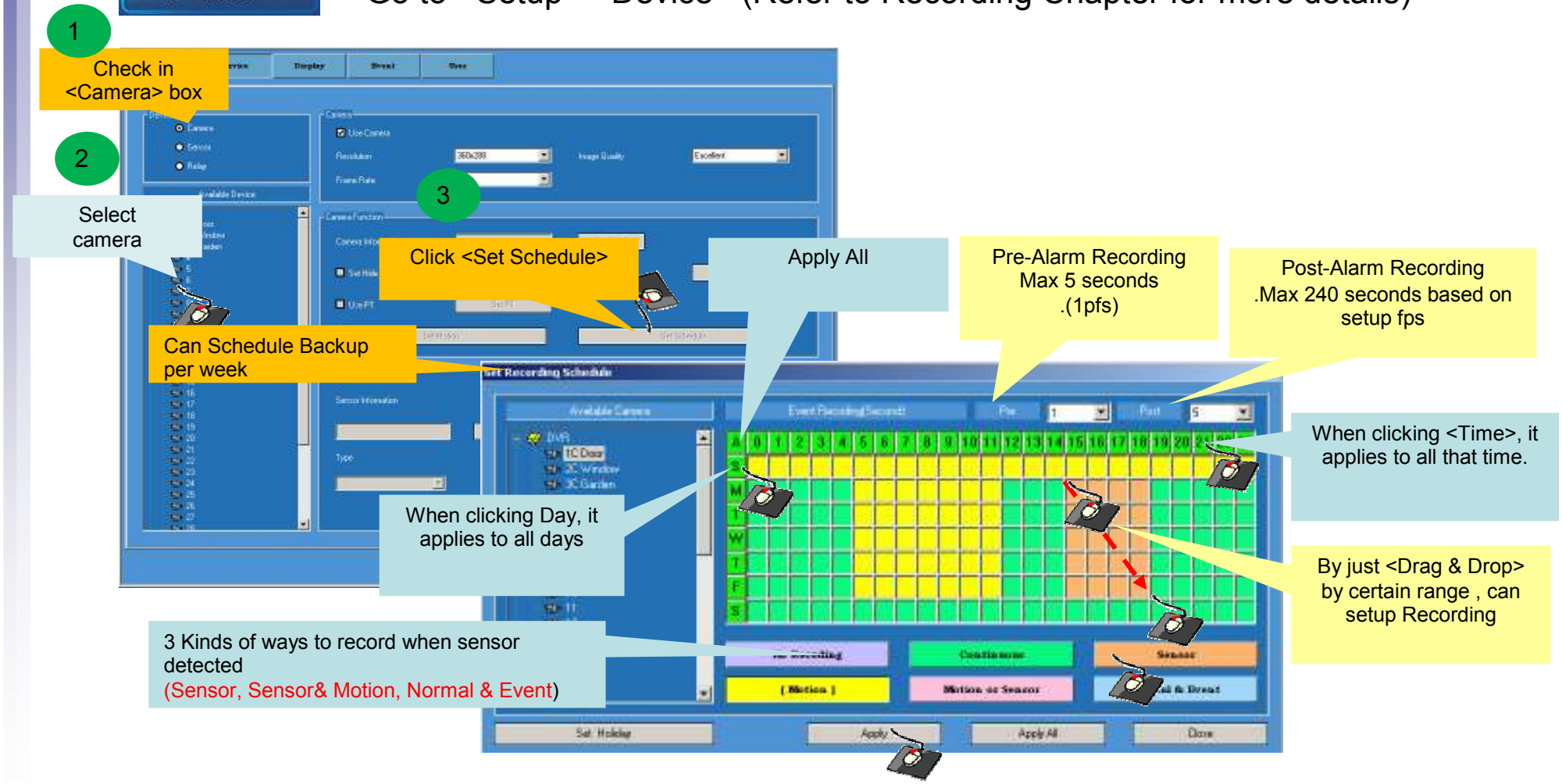


# Live View

## Alarm In/Out : How to Setup <Relay Schedule>

SETUP

Go to <Setup=> Device> (Refer to Recording Chapter for more details)


1
Check in <Camera> box
2
Select camera
3
Click <Set Schedule>
Can Schedule Backup per week
Apply All
Pre-Alarm Recording Max 5 seconds .(1pfs)
Post-Alarm Recording .Max 240 seconds based on setup fps
When clicking <Time>, it applies to all that time.
When clicking Day, it applies to all days
By just <Drag & Drop> by certain range , can setup Recording
3 Kinds of ways to record when sensor detected
(Sensor, Sensor& Motion, Normal & Event)

# Live View

## Alarm In/Out : Check the working Status

Sensor Status in <Live View>

Relay connection and Control in <Menu Tree>

Double click for Relay

Sensor connection and Status

# Live View

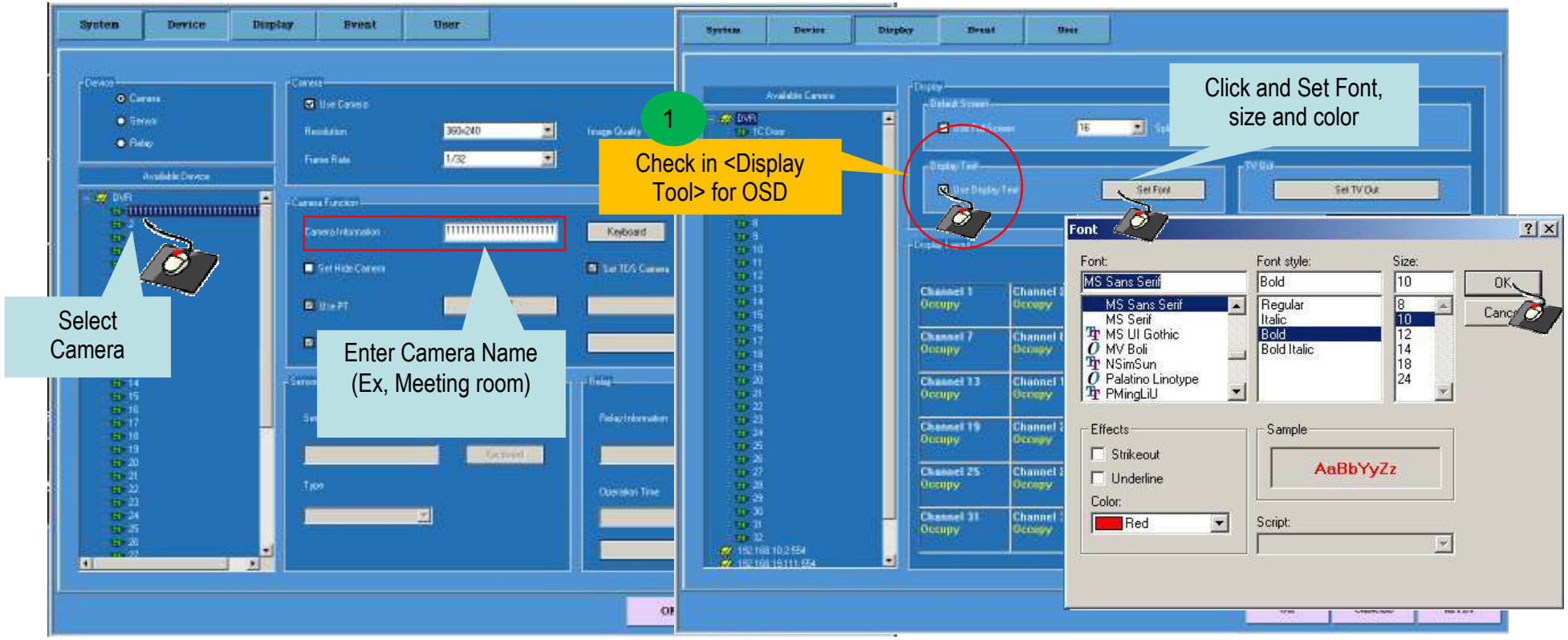
## How to setup Camera Name and OSD

SETUP

Can Setup camera description and size and font of OSD

**Setup =>Device**

**Setup =>Display**



# Live View

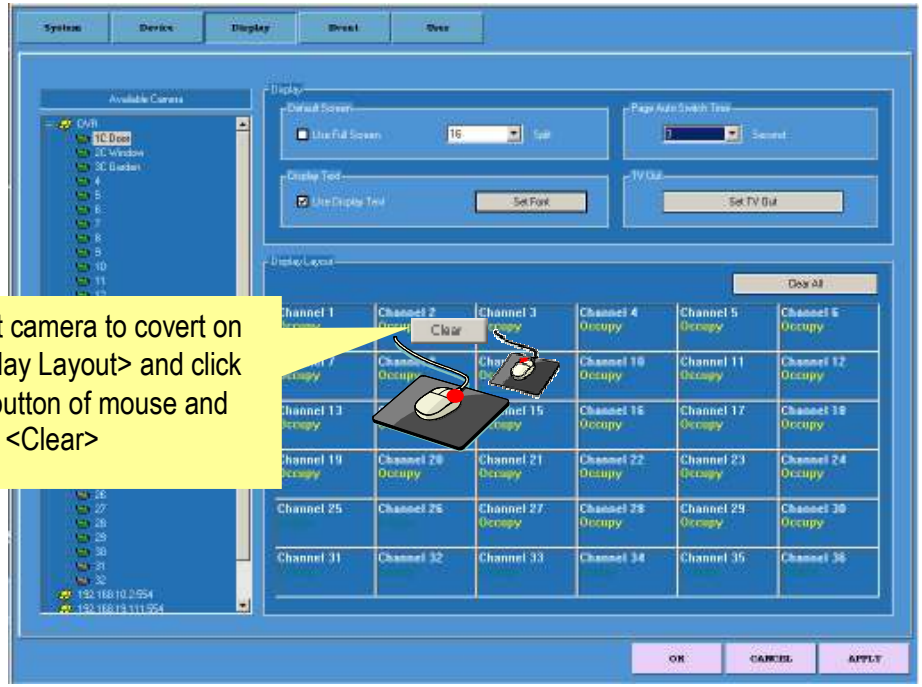
## How to setup Camera Name and OSD

### How to setup Camera Name and OSD

# Live View

## Covert camera (Hide Screen)

Using <Hide Screen>, users can make certain camera not be shown in <Live View >, but not in <TV-out>, and it continues recording




Covert Screen

Live View in Main DVR

TV-Out Screen

N.B It applies to <DVR main> and <TV-out > together but not to NCMS

# Live View

## PTZ: PTZ Control Devices

P/TZ Control Devices

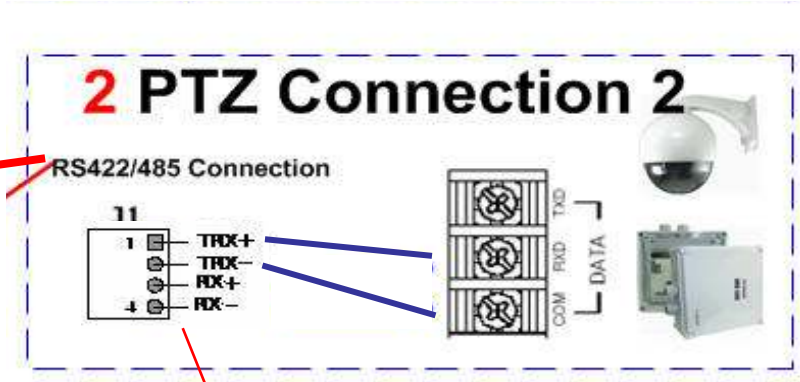
| Available BD Model | EIO0404 | EIO1604 | DIO0404 | PTZ |
|---|---|---|---|---|
| Image | | | | |
| USB Support | Yes | | | |
| Cable | RS232C RS422/485 USB | | USB | |
| Available model | HYC2432, HYR4832, HYR4816 | | HYR1216,HYR2416,<br>HYC1216,HYC2416 | |
| ETC | To use <EIOO> , have to install **USB Driver (AvSwitch_PL-2303 Driver Installer)**<br>Can not use RS232C port and USB Port together | | <br>USB Driver install | |

# Live View

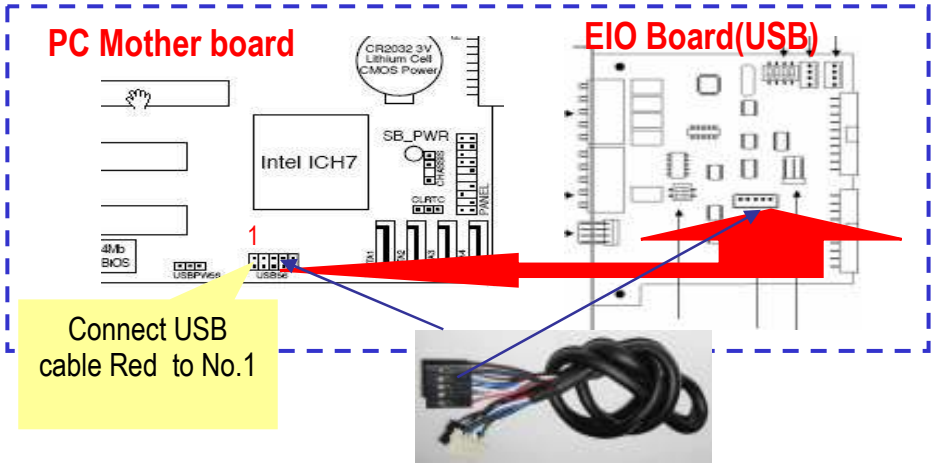
## PTZ Control: How to use EIO USB Serial Converter

Connection to use EIO USB Serial converter

This is used to use Comport in motherboard




How to connect <PC mother BD> and < EIO USB>



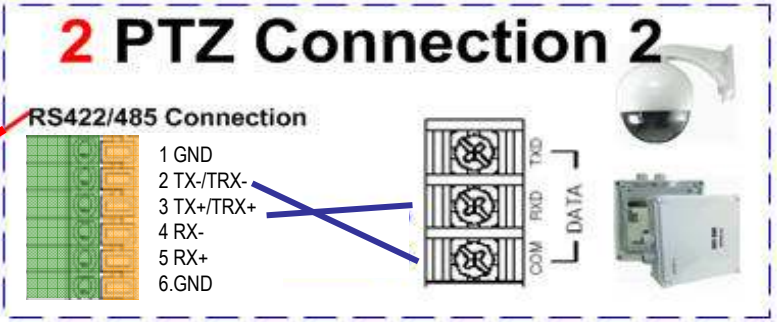
| Color | RS422 | RS485 |
|---|---|---|
| Yellow | TX+ | TRX+ |
| Orange | TX- | TRX- |
| Red | RX+ | |
| Brown | RX- | |

<N.B> Do not use <Motherboard> com port and USB together

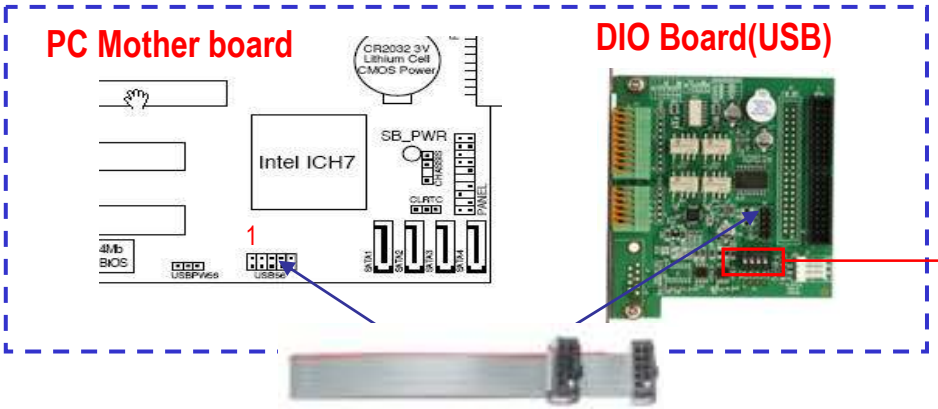
# Live View

## PTZ Control: How to use DI/DO Serial Converter

Connect by DIO Serial converter




<N.B> How to connect <PC mother BD> and < EIO USB>



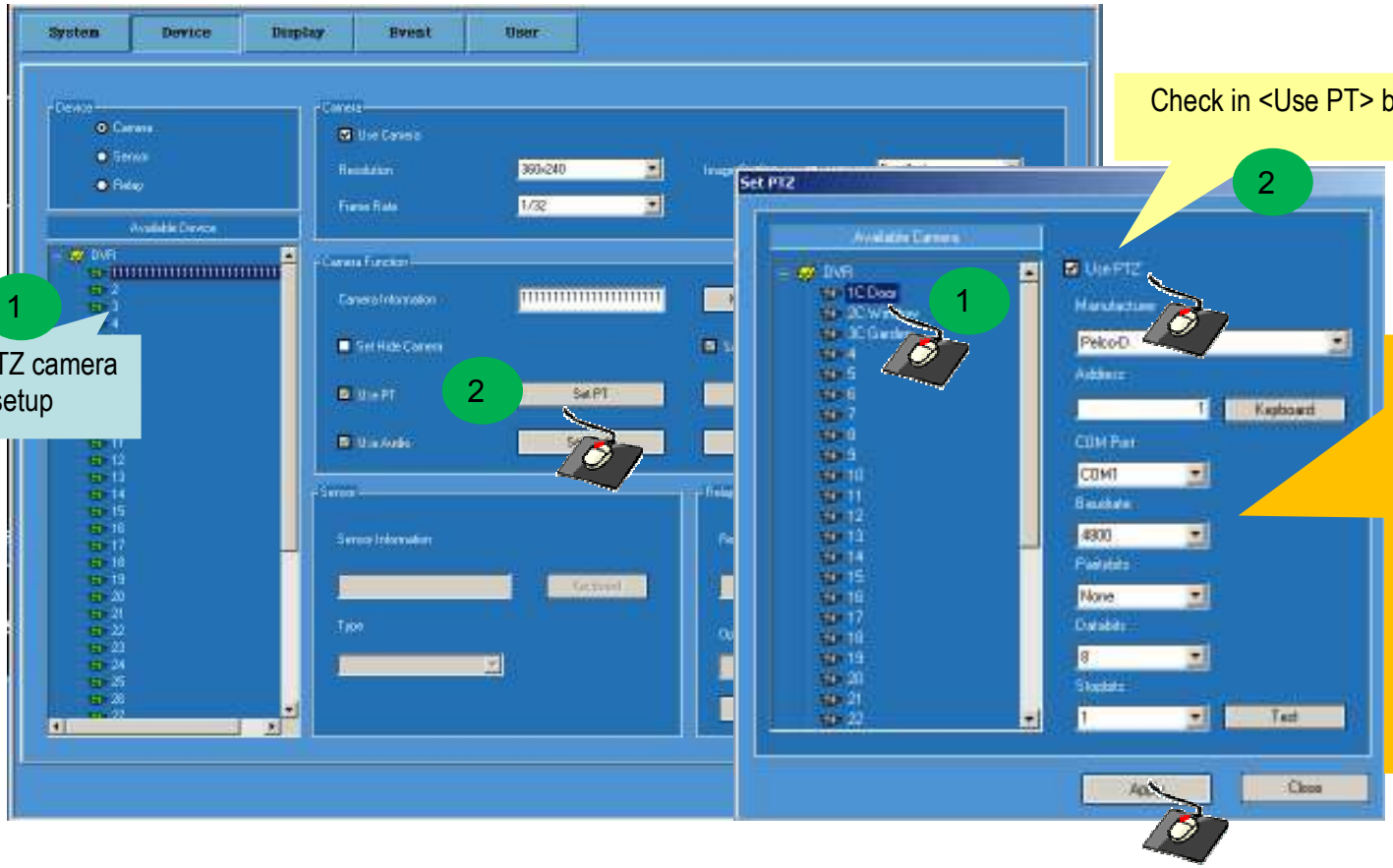

| SW | RS422 | RS485 |
|---|---|---|
| 1 | ON | OFF |
| 2 | ON | OFF |
| 3 | ON | OFF |
| 4 | ON | OFF |

# Live View

## PTZ Control: How to Setup

SETUP

Go to <Setup => Device>



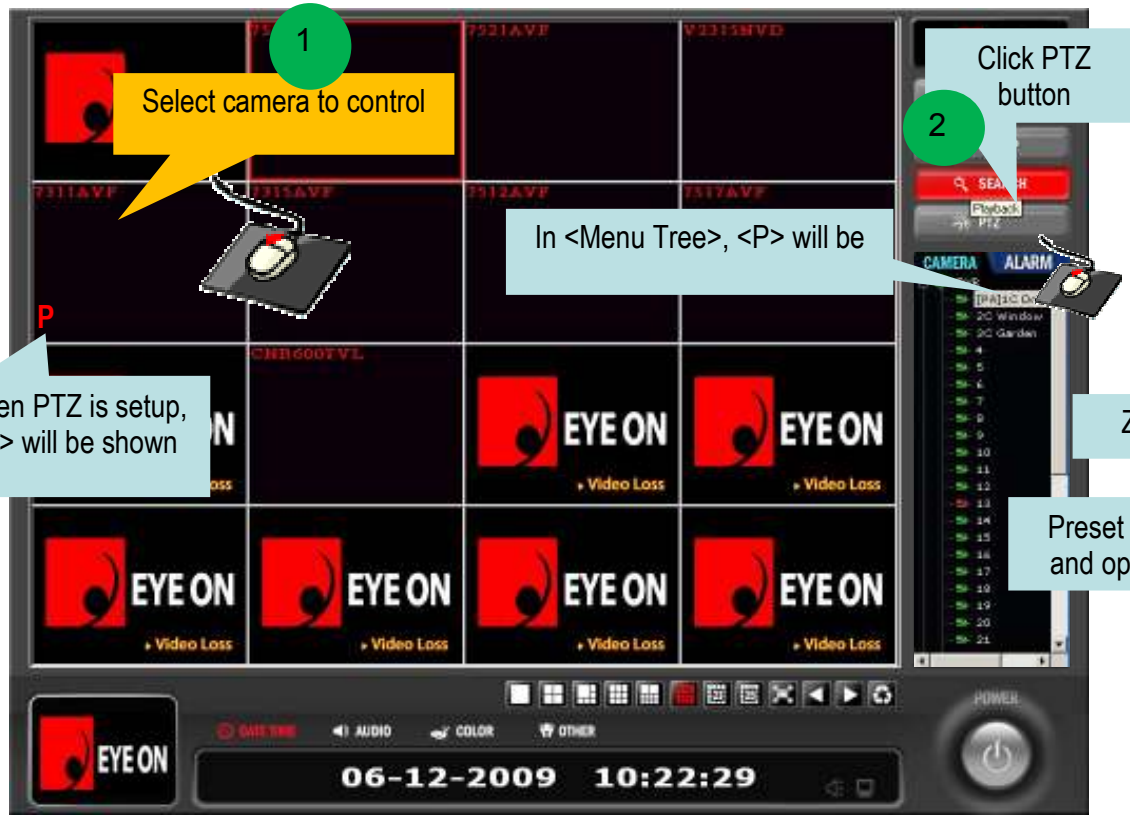
# Live View

## PTZ Control: How to control PTZ camera

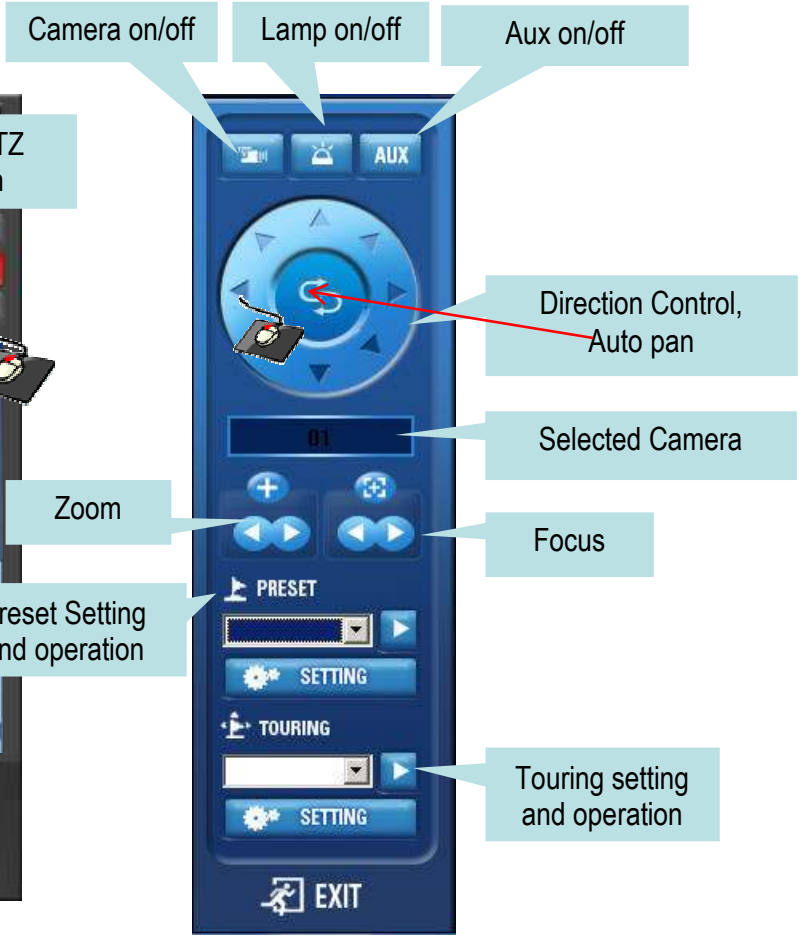
PTZ

P/T/Z control

Can control PTZ by <On screen> and <PTZ Panel>



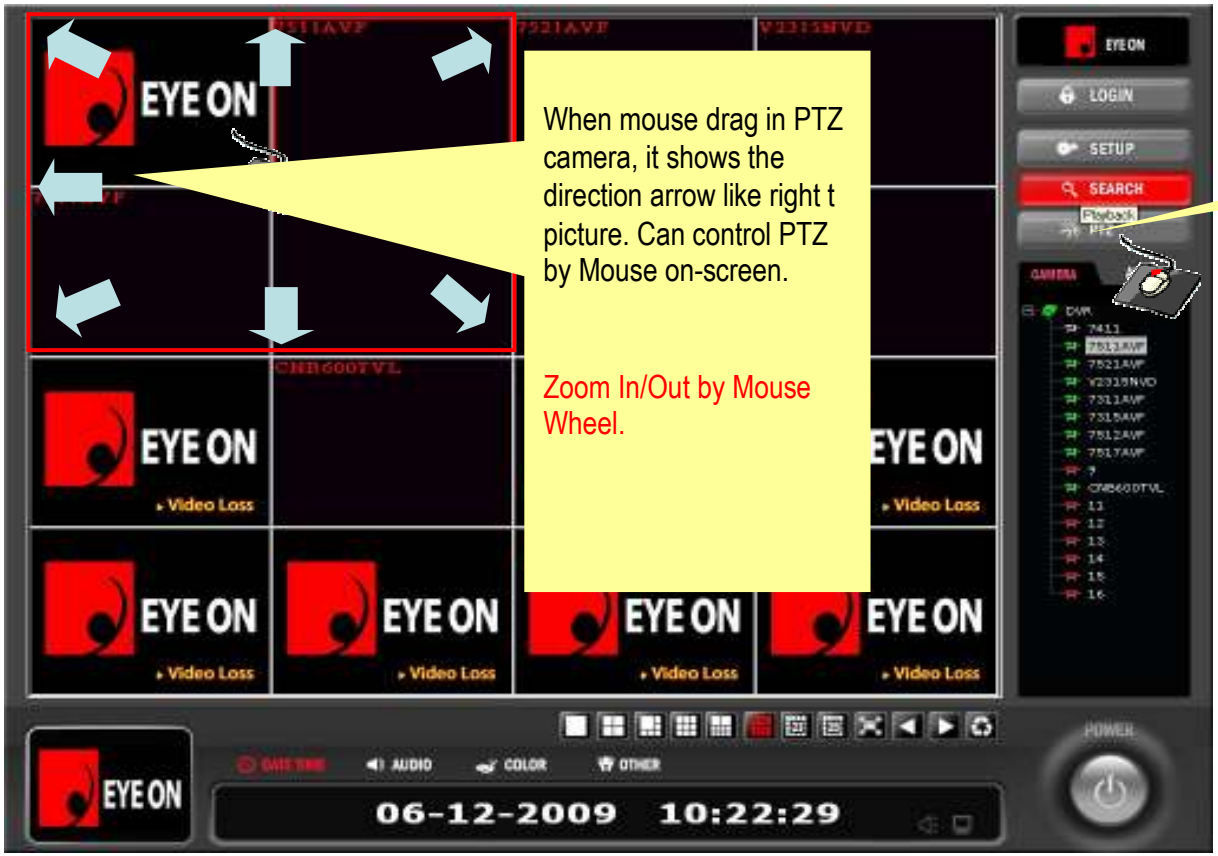

<PTZ> Panel



# Live View

## PTZ Control: How to control PTZ camera

P/T/Z control by <On-Screen>



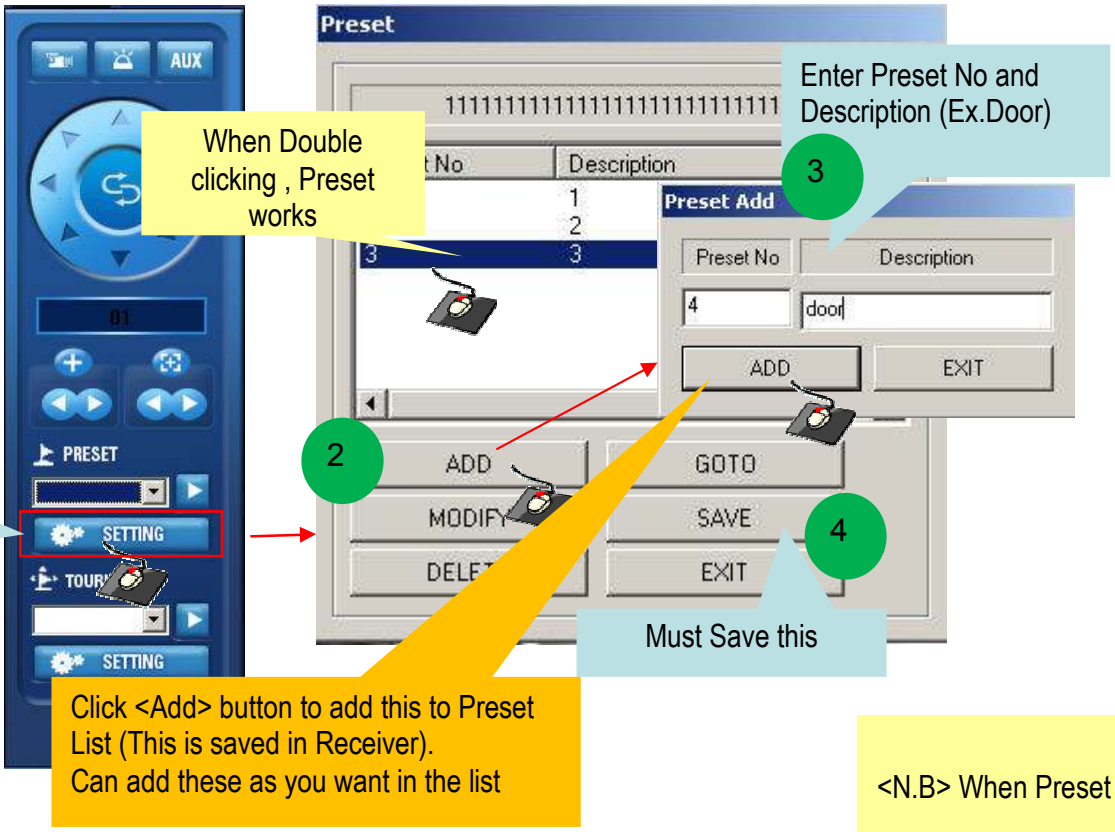
# Live View

## How to setup and control <Preset>

Preset Setup and Operation

Preset ???: This can make certain PTZ camera go to certain position

Preset Add




Preset Working

<N.B> When Preset No is the same , the final No is saved.

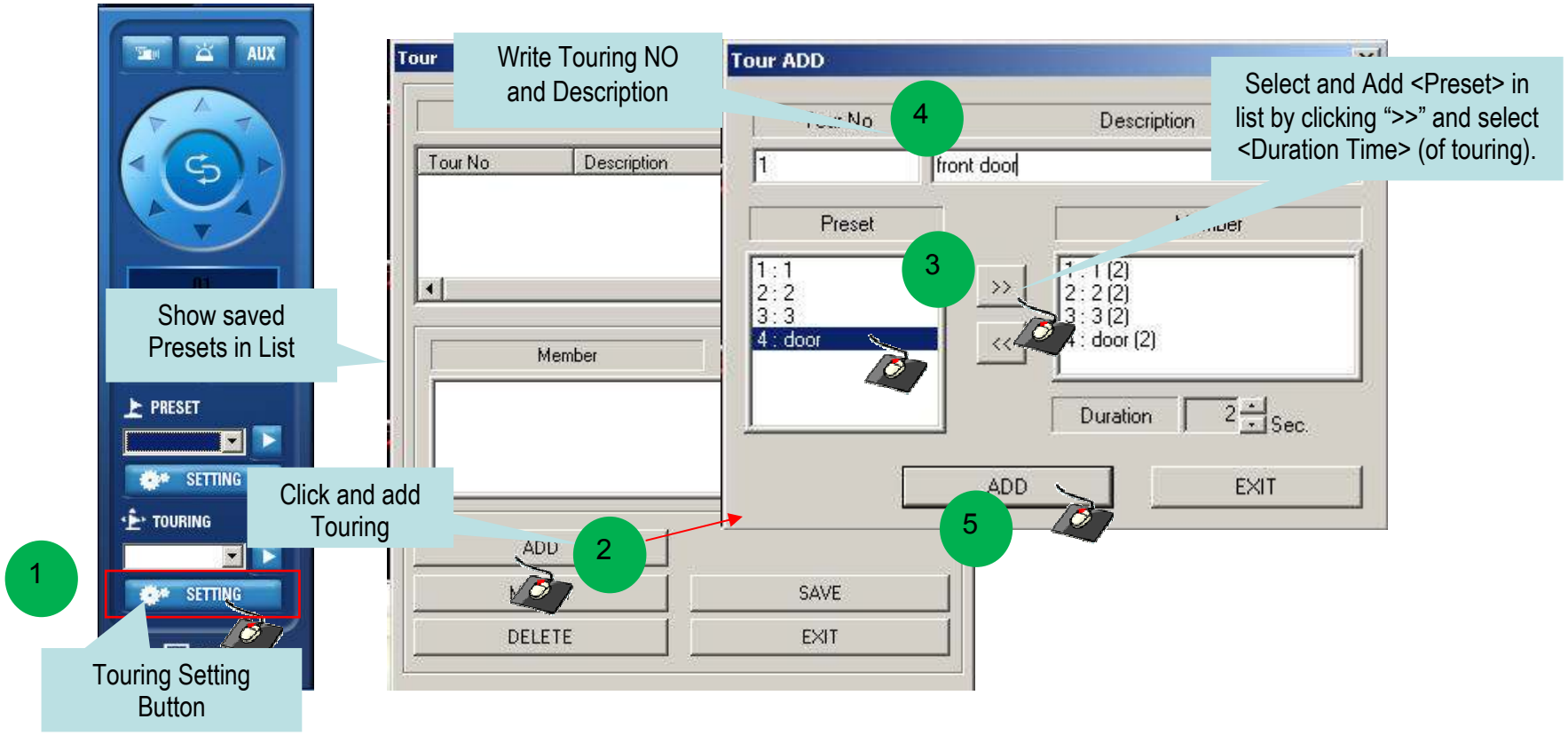
# Live View

## How to setup and control <Touring>

Touring  Setup and Operation

Touring??

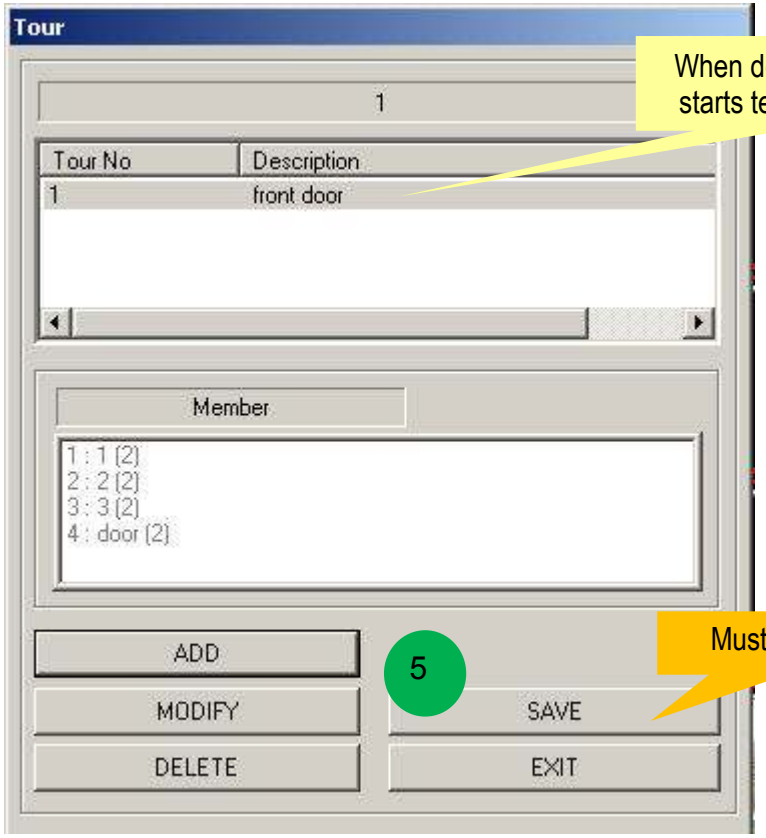
By the combination of Presets, user can make PTZ camera <Tour> around saved preset positions.



# Live View

## How to setup and control <Touring>

### Touring Setup and Operation




When double clicking, it starts testing of touring

Must <Save> this

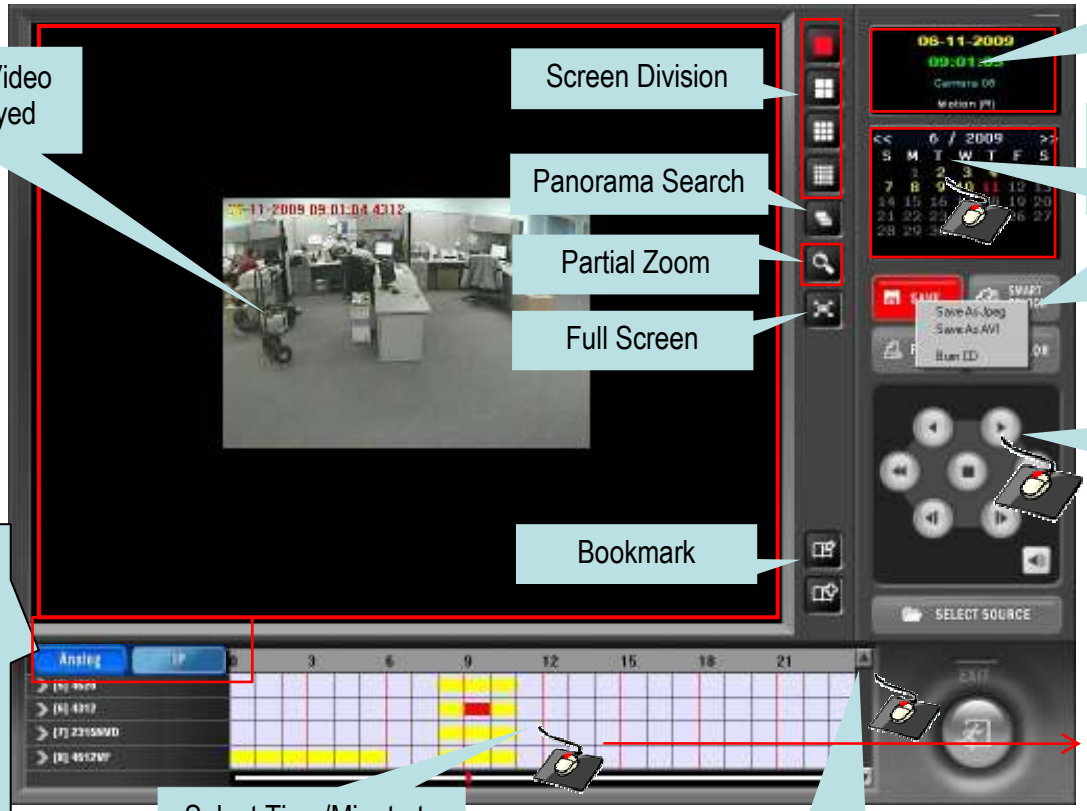
When selecting and clicking, it starts touring

Ex) It starts Touring , starts go to <1> and dwellls 2 seconds (as setup), and goes to other preset positions

# Search & Playback

## How to <Search and Playback> recorded data

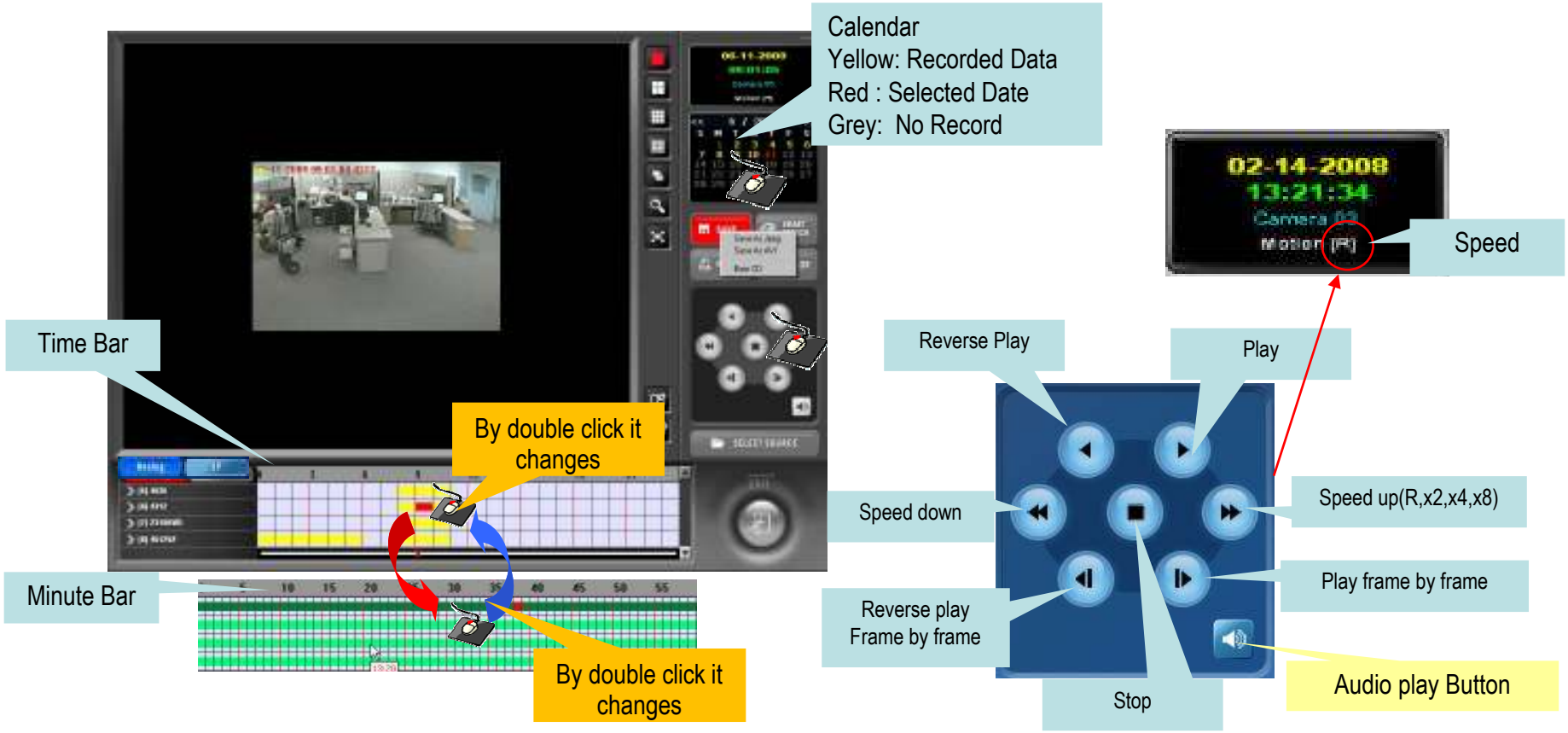
To search and playback recorded data


Searched Video are displayed
Screen Division
Panorama Search
Partial Zoom
Full Screen
Bookmark
Information Window
Recorded time, camera and recording Mode
Calendar
Show date for selected Date in RED
Function button
Print, Save (Jpeg, AVI), Smart search, Image tool
Play Butoon
CH Selection for Analog and IP product.
(IP product CH is saved in 33,34,34,36 CH)
Select Time/Minute to search and playback
Camera Scroll Button
Green: Continuous Recorded Data
Yellow: Motion Recorded Data
Orange: Sensor Recorded Data
Blue: Continuous & Event Recorded Data
Pink: Sensor & Motion Recorded Data
Each Dark Color means <Recorded with Audio>

# Search & Playback

## 1CH Screen

### 1 CH Search and Playback



# Search & Playback

## 1CH Search during Multi CH search

To change 1CH in Multi CH search

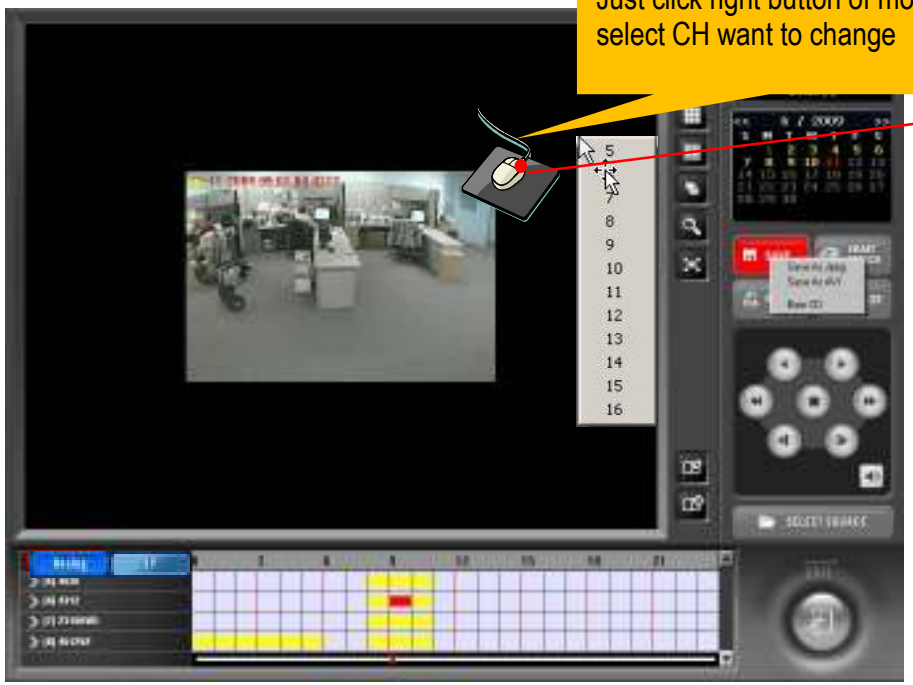
# Search & Playback

## Combination Search

Can combination wanted channels during Multi CH search

**1,2,3,4 CH Screen**

Just click right button of mouse and select CH want to change

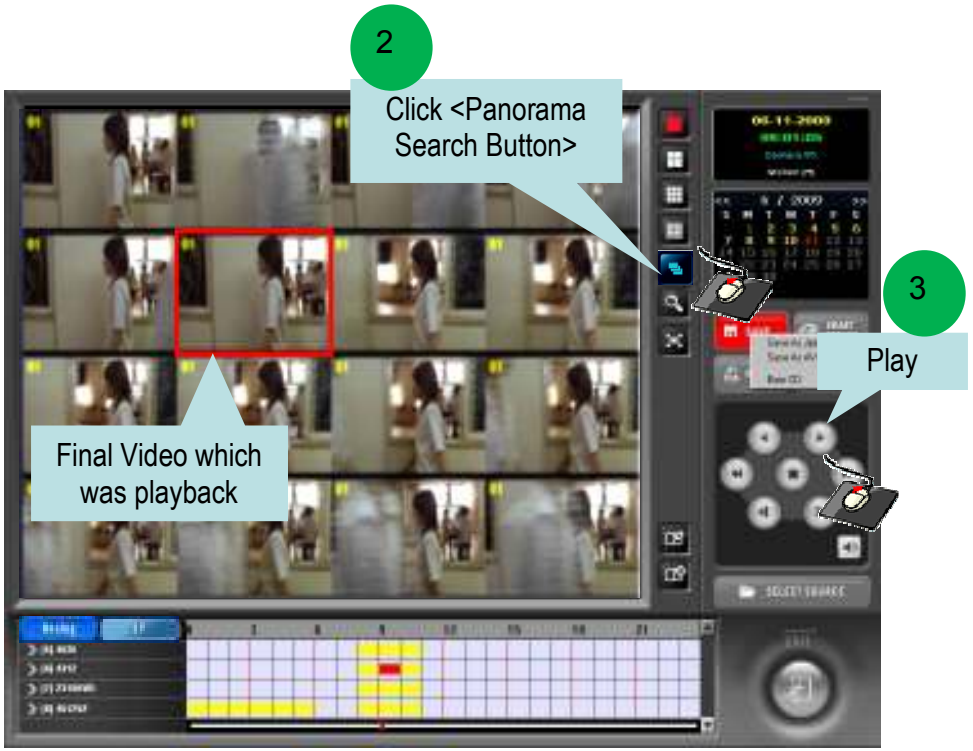



**1,8,3,13 CH Screen**

# Search & Playback

## Panorama Search

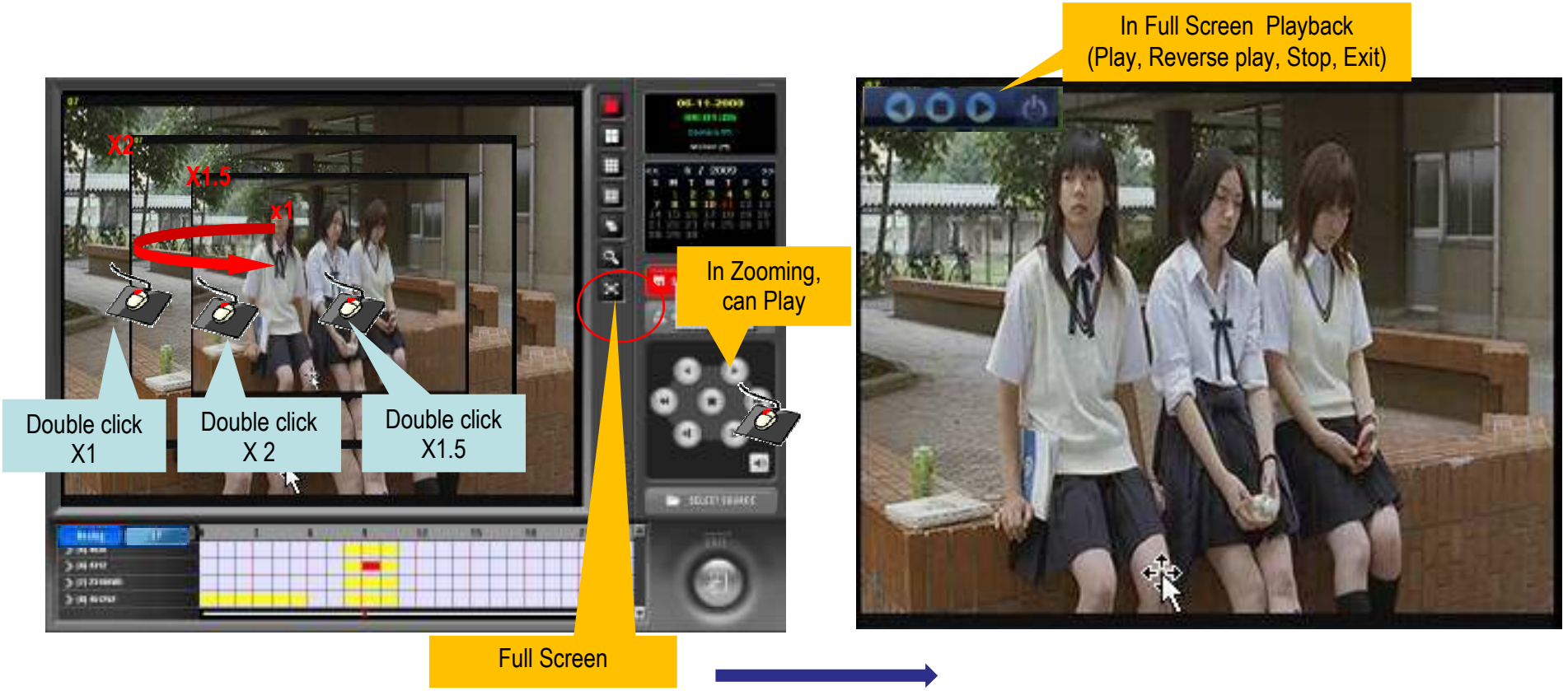
Show panoramic Image in Playback



# Search & Playback

## Zoom

Can Zoom Up the Video (x1, x1.5, x2, Full ) by just clicking the mouse



# Search & Playback

## Bookmark

In search, can <Bookmark> certain data and playback

### Book Mark Add

Add inBook mark list

1

In playback, click the right button of mouse and select <Add Bookmark>

2

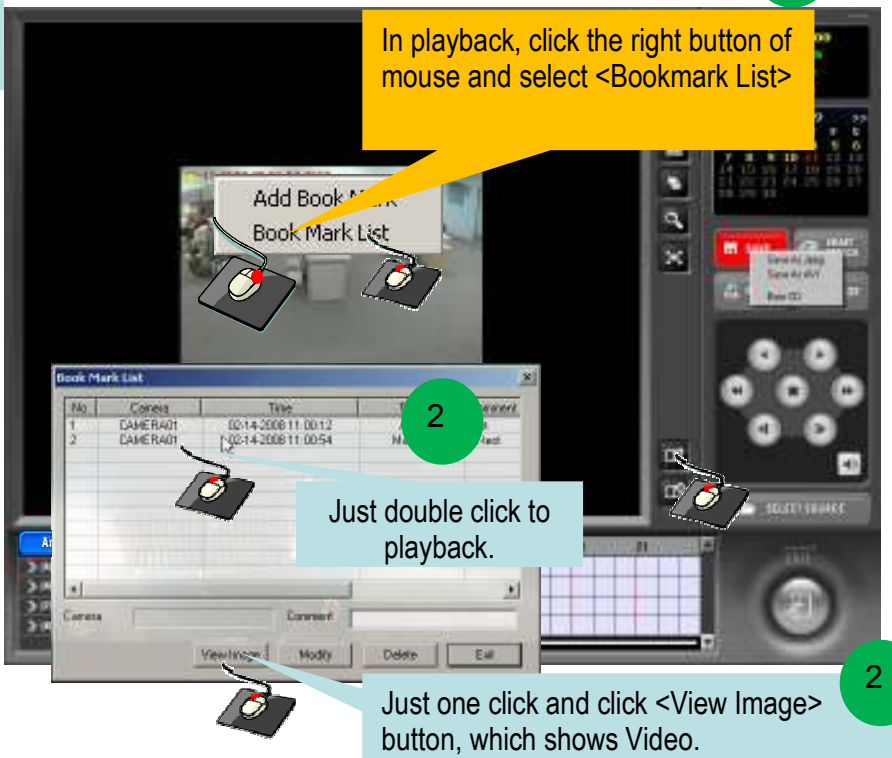
Enter Information

### Book Mark List

Can Search and playback <Bookmark List>

1

In playback, click the right button of mouse and select <Bookmark List>




2

Just double click to playback.

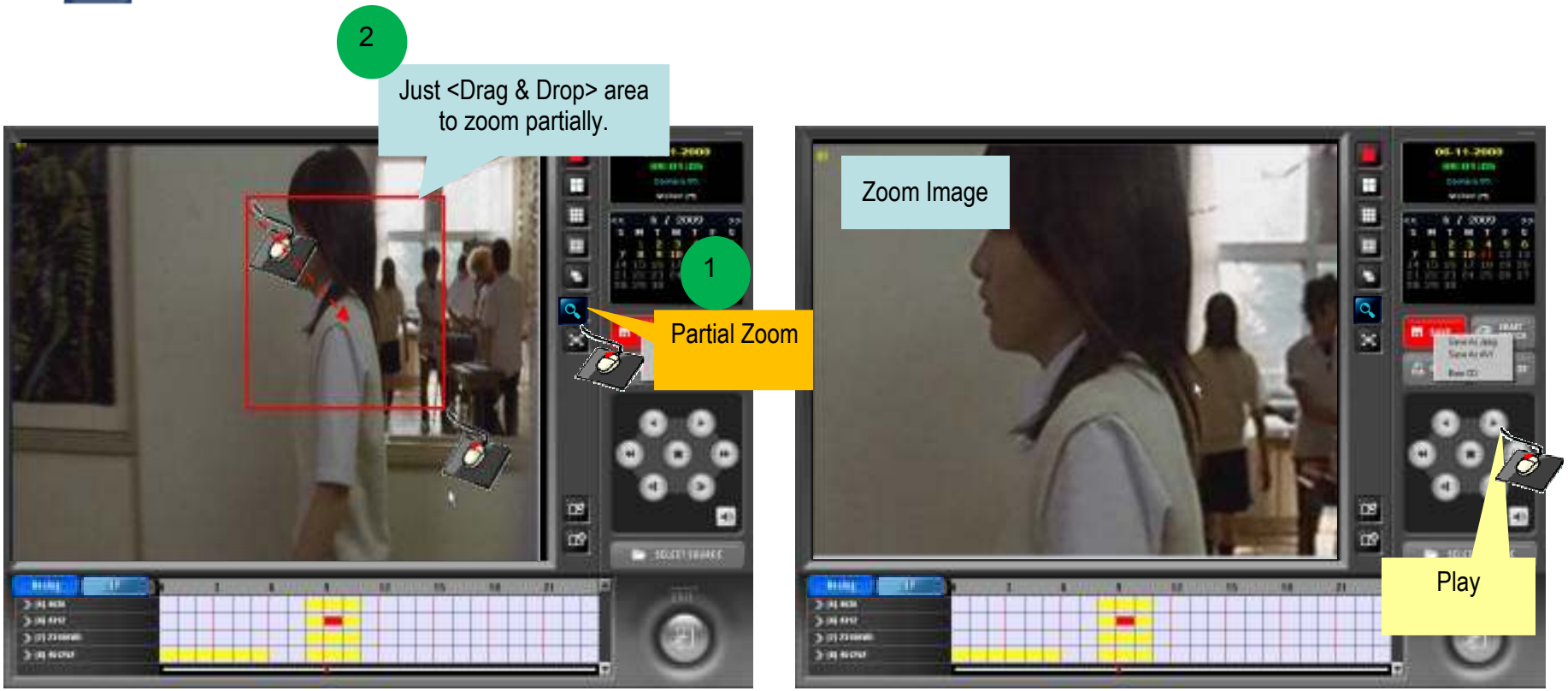
2

Just one click and click <View Image> button, which shows Video.

# Search & Playback

## Area Zoom

In Playback, can partially zoom certain area to monitor that with care

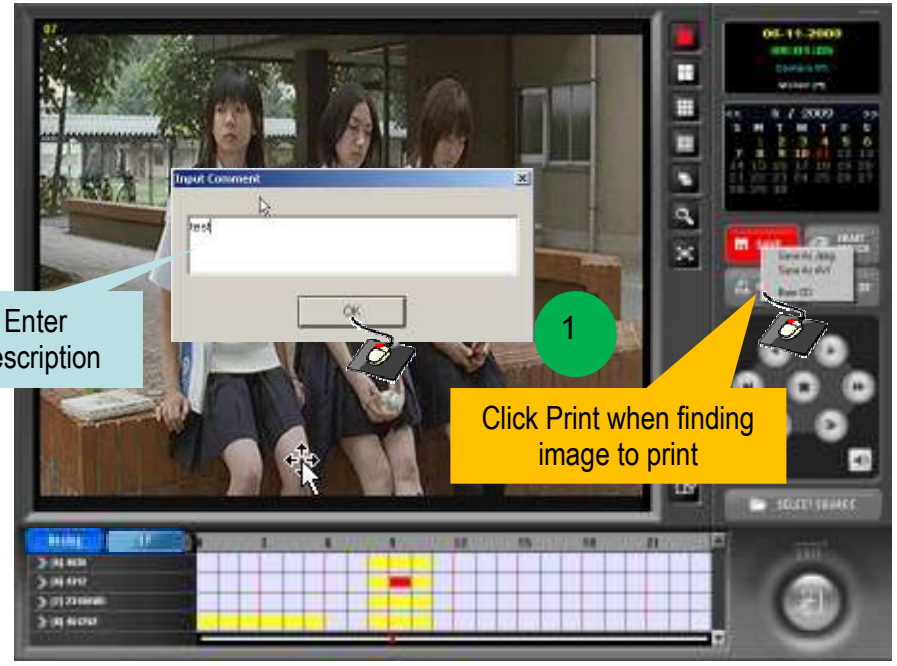


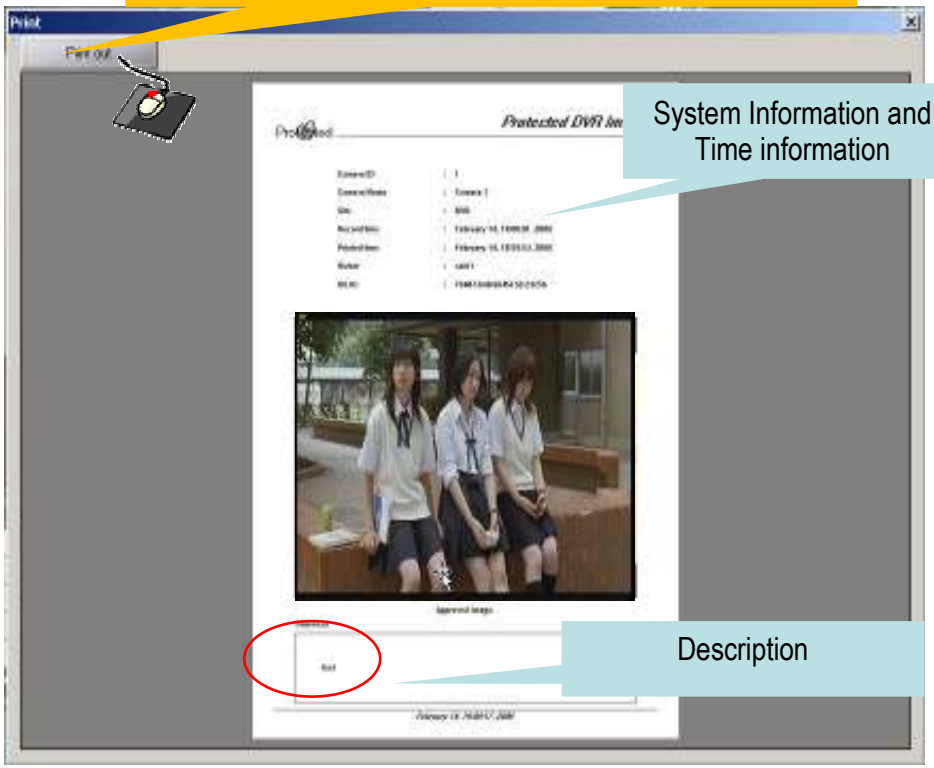
# Search & Playback

## Print Image

PRINT

Printer out the searched image



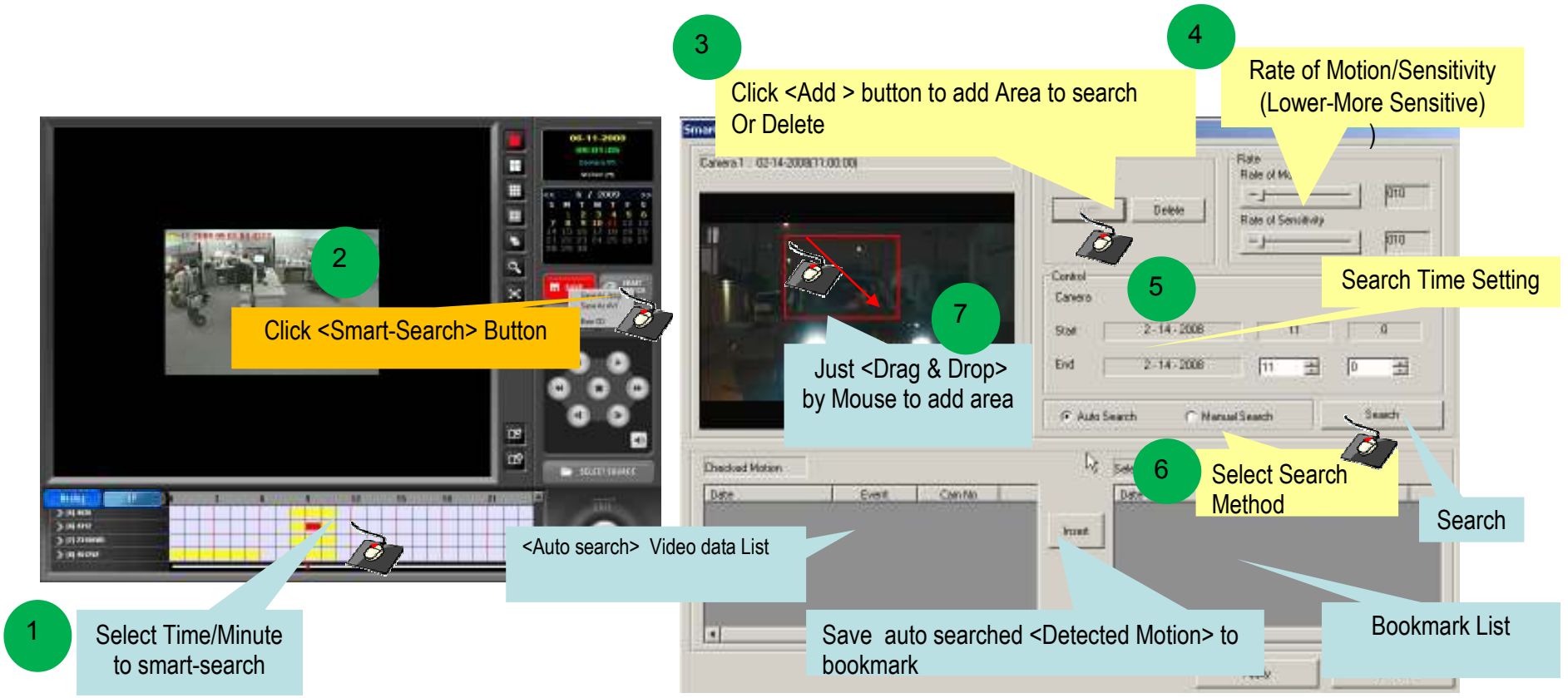




<N.B> When Image size is small in search screen, the print image will be small. So please changes size before print

# Search & Playback

## Smart- Search

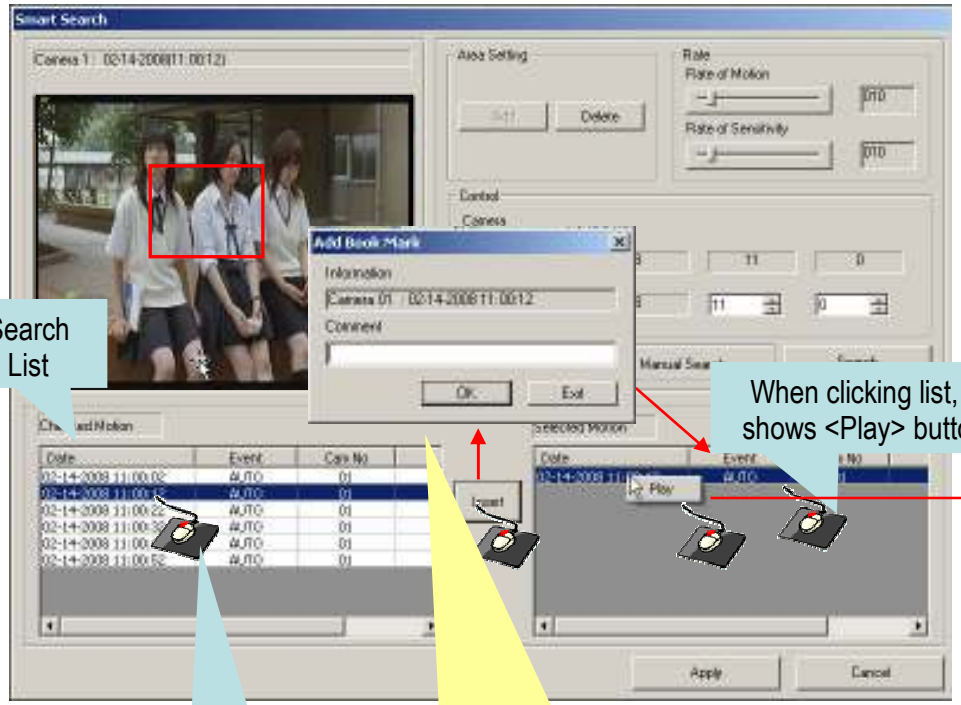
To detect <motion or changed things> in certain areas, bookmark, and playback and use them easily and smartly




Auto search: Save automatically detected Video in Bookmark list..
Manual search: Ask users to save <searched Video data> before saving in Bookmark list

# Search & Playback

## Smart- Search(2)




Auto-Search Data List

When clicking list, it shows <Play> button

When Clicking, it playback

Save auto searched <Detected Motion> to bookmark

<Playback>

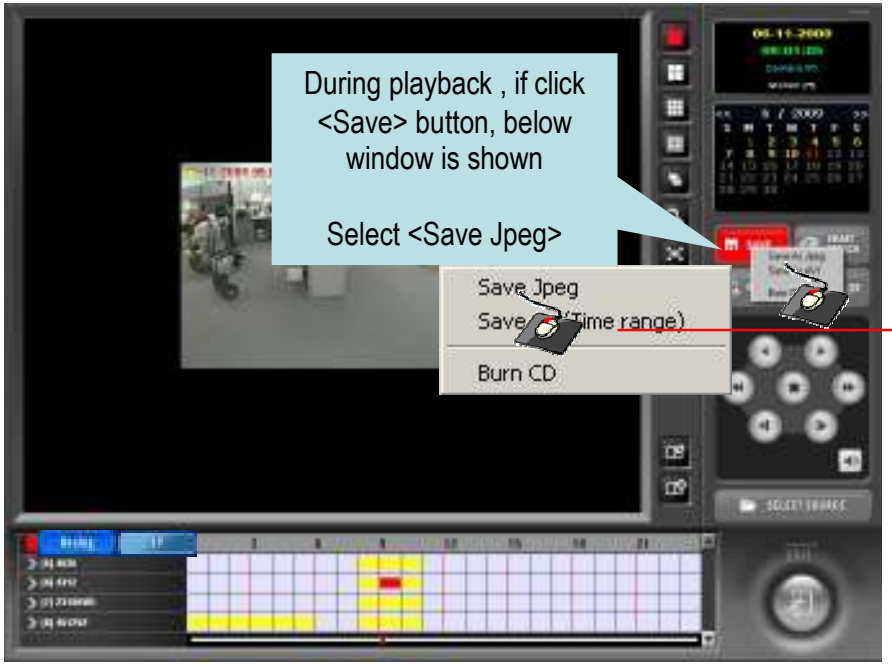
<N.B> In <Manual search>, whenever searched data comes, it asks to <Add bookmark> window displays every time.

# Search & Playback

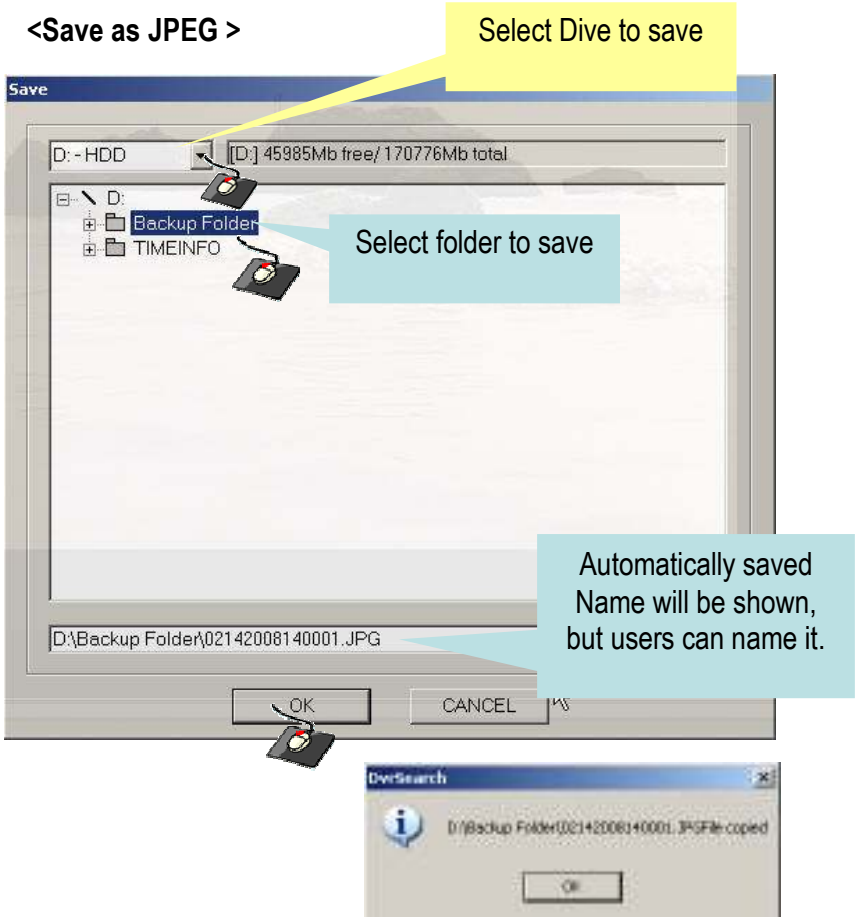
## Save As <Jpeg or AVI> File

SAVE Can save searched Data as Jpeg or AVI file

To save (JPEG, AVI)



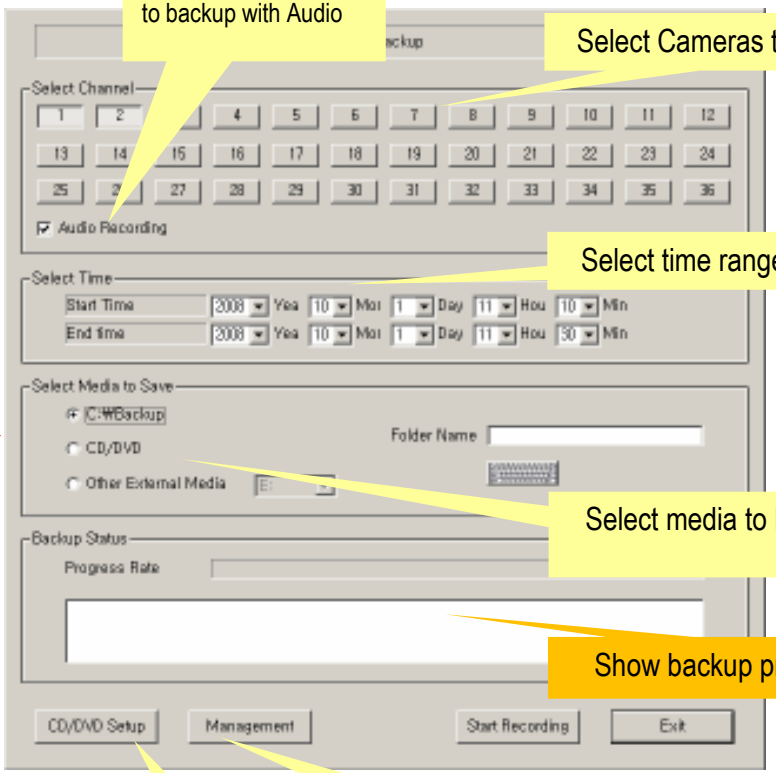

**<Save as JPEG >**



# Search & Playback

## Save As <Jpeg or AVI> File

**To save as <AVI > file**



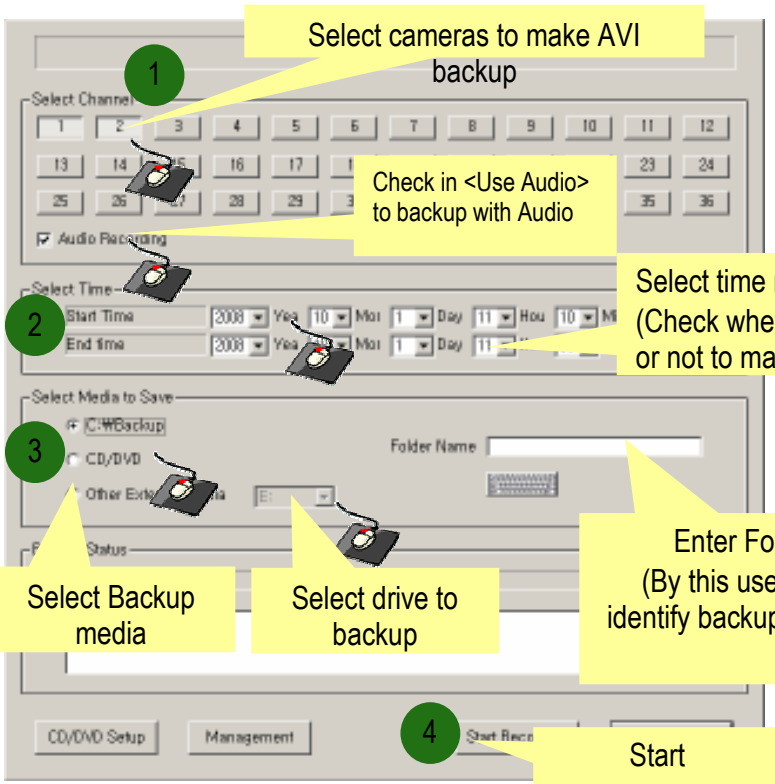

<N.B> Audio Synchronization Function
Audio synchronization with Video is done automatically.
But this is done when at least 1 fps is saved,. So users have to save at least 1 fps.

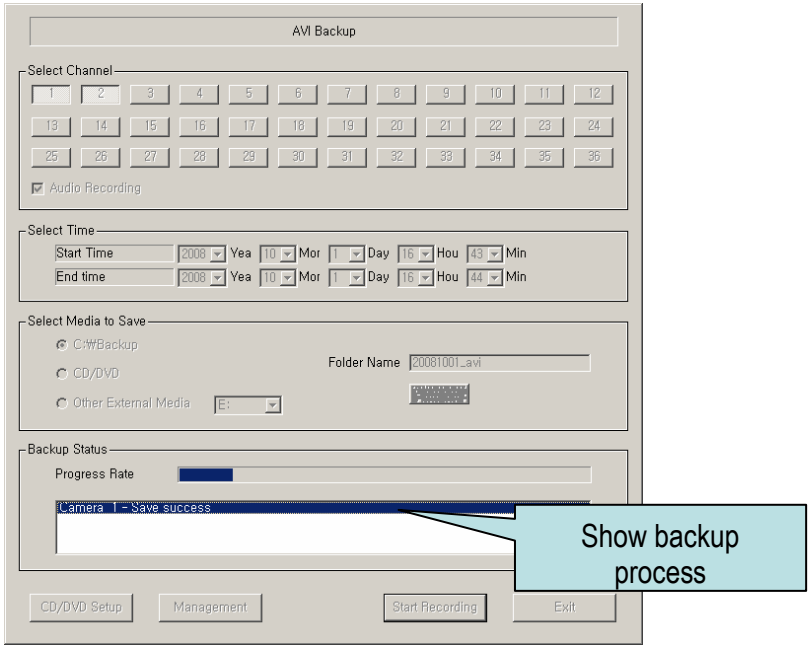
So in Motion Recording..Audio Synchronization can not be perfect.

# Search & Playback

## Save As <Jpeg or AVI> File

### To save as <AVI > file




<N.B> Backup Media
Default: Backup in the root, C:_backup in Local HDD
(Can be used again)
CD/DVD: CD R/RW,DVD R/RW
External: Backup in USB external HDD or other external storage.

<N.B> When users named the folder , all backup files are saved in the <time/date> folder when backup. In this <time/date> folder, all backup data are saved as <time/date>.file.

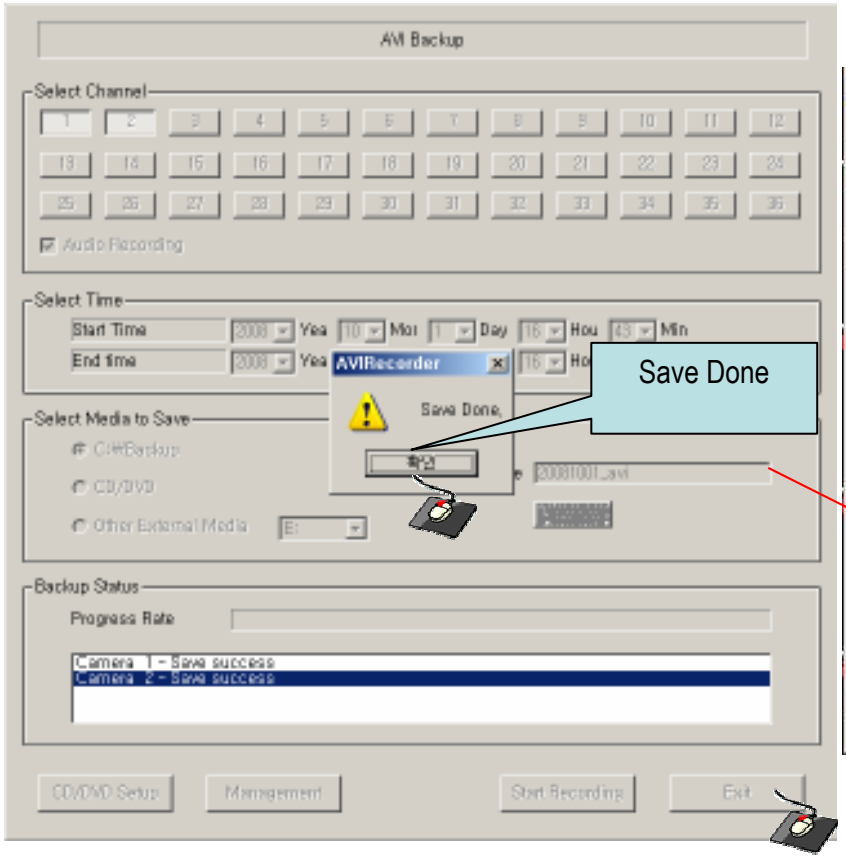
When users did not name the folder , <time/date> folder is made and in this all data are saved , all backup data are saved as <time/date>.file.

# Search & Playback

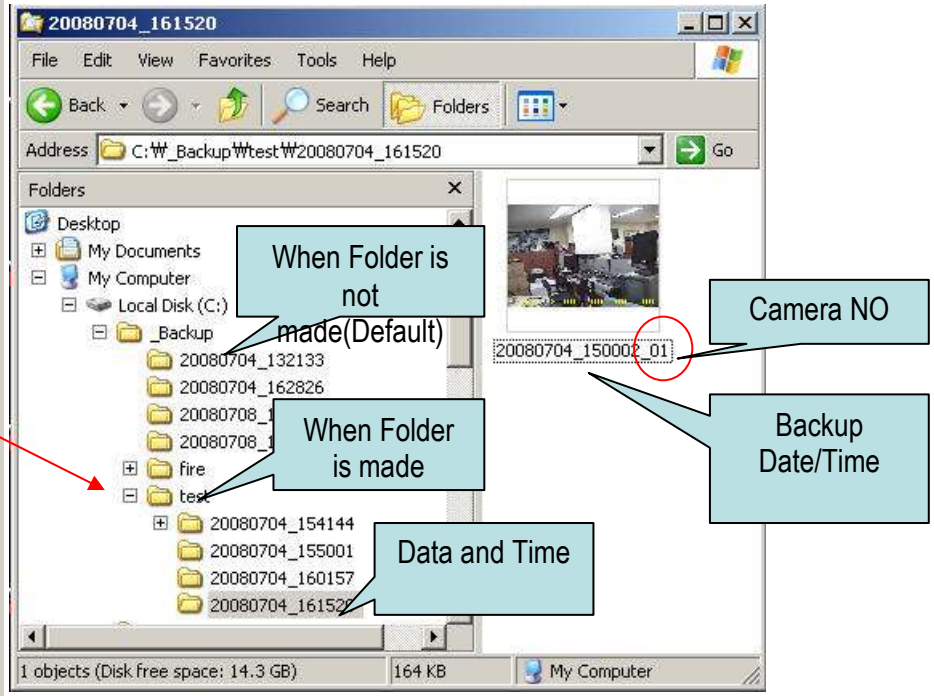
## Save As <Jpeg or AVI> File

### To save as <AVI > file

#### To backup to External Drive




Backup the data in C:\program files_backup backup data

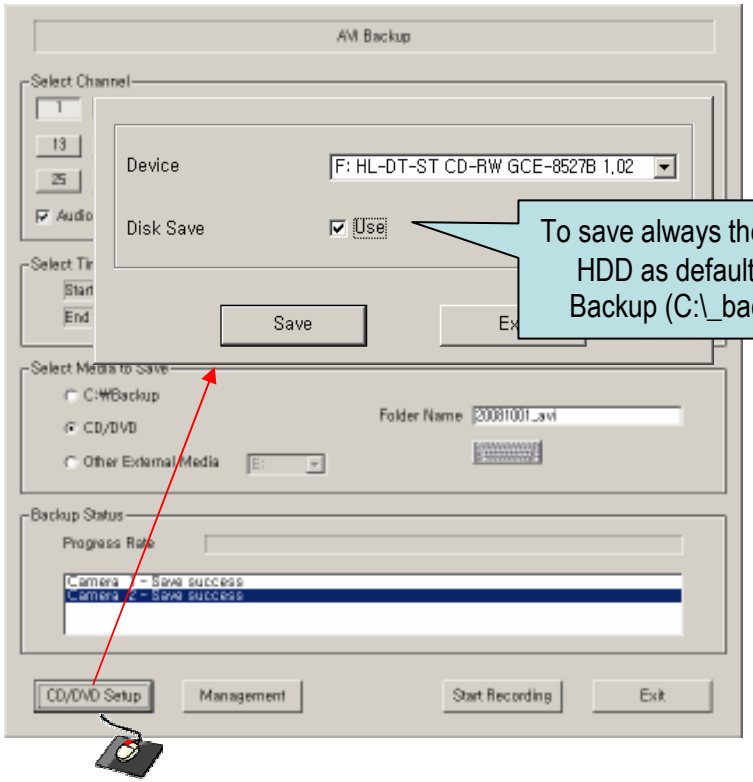


# Search & Playback

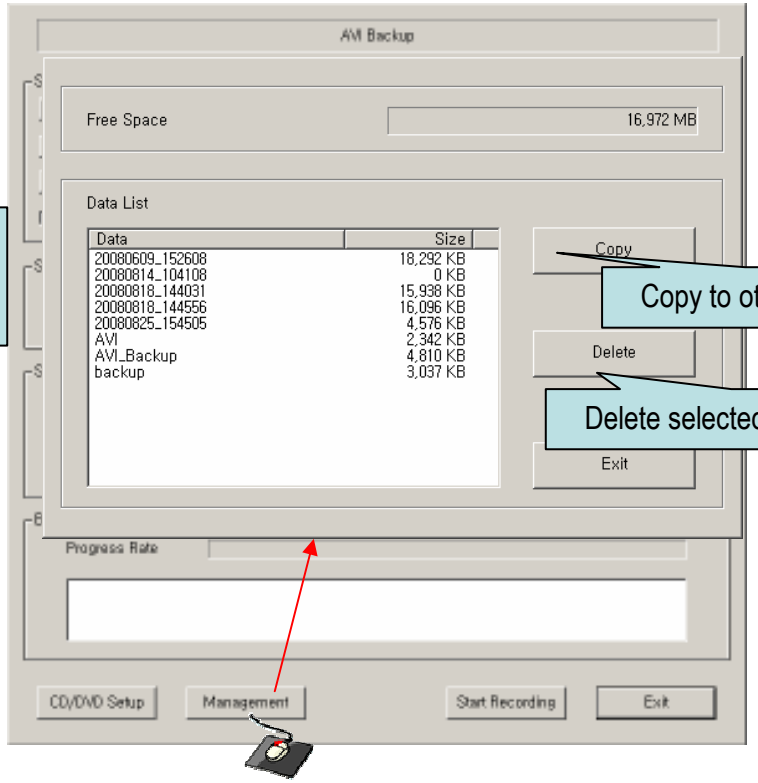
## Save As <Jpeg or AVI> File

### To save as <AVI > file

### Setup in CD/DVD




### Backup Data Management




**This the default directory data in** (C:_backup ), users can manage (copy/delete data) as user want.

# Search & Playback

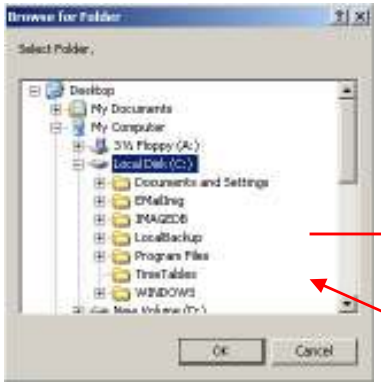
## Backup in CD/DVD

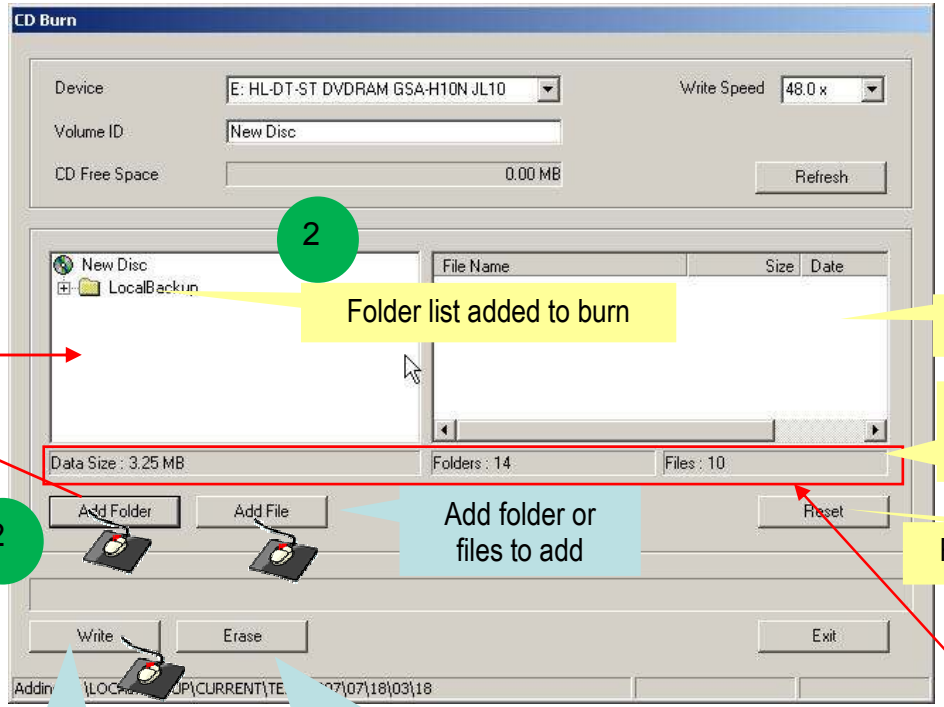
**Have its own tool to save data in CD/DVD**

**(To burn CD, have to save files in HDD first like previous page)**

1

**Select <Burn CD>**






2

Folder list added to burn

File list added

Information for folder, and file size and No

2

Add folder or files to add

Reset added files

Write

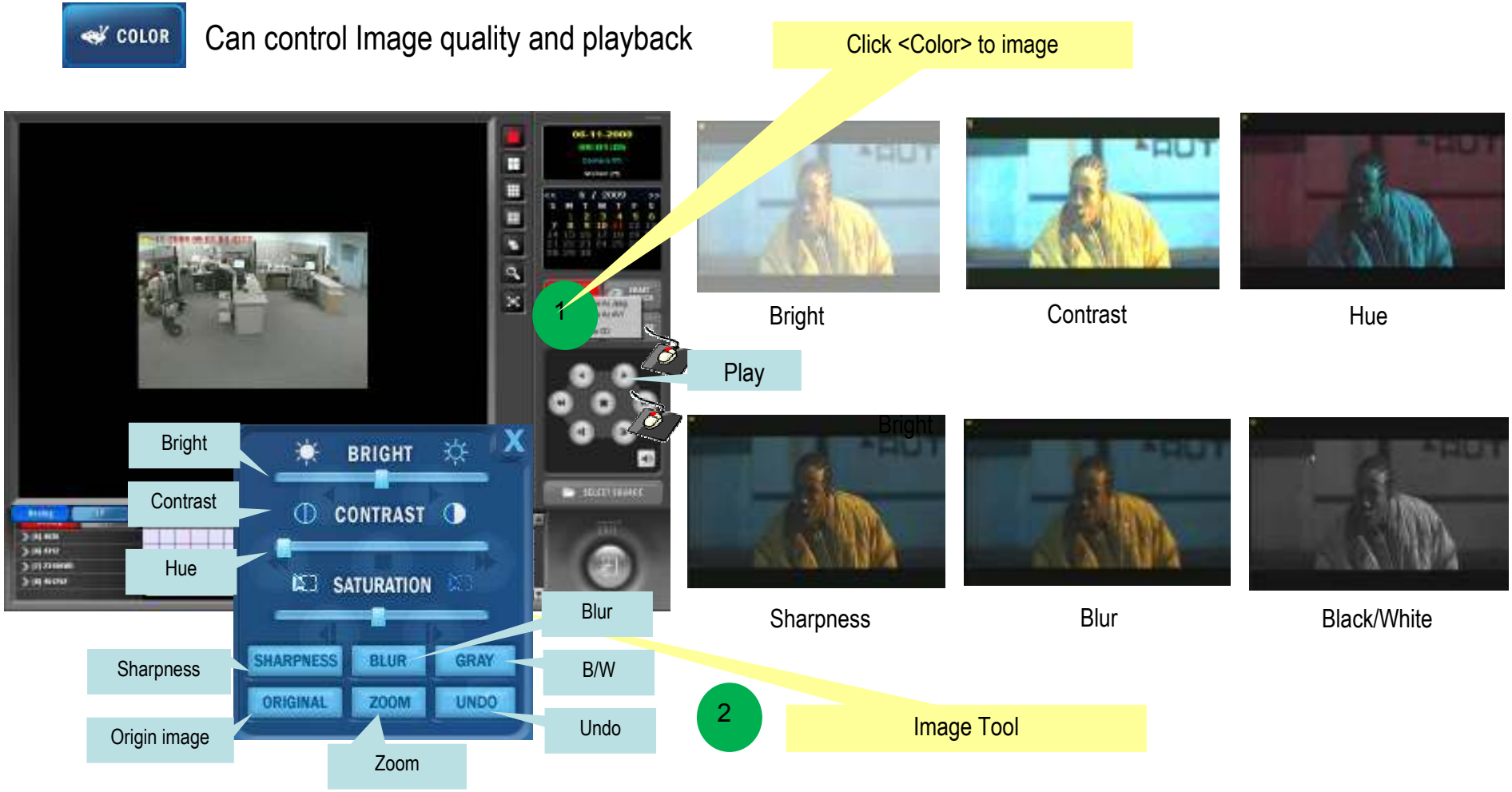
To delete data in CD-RW,DVD-RW media

<N.B> Check the file size to burn in CD before Burn in CD and burn.

# Search & Playback

## Image Tool

COLOR Can control Image quality and playback

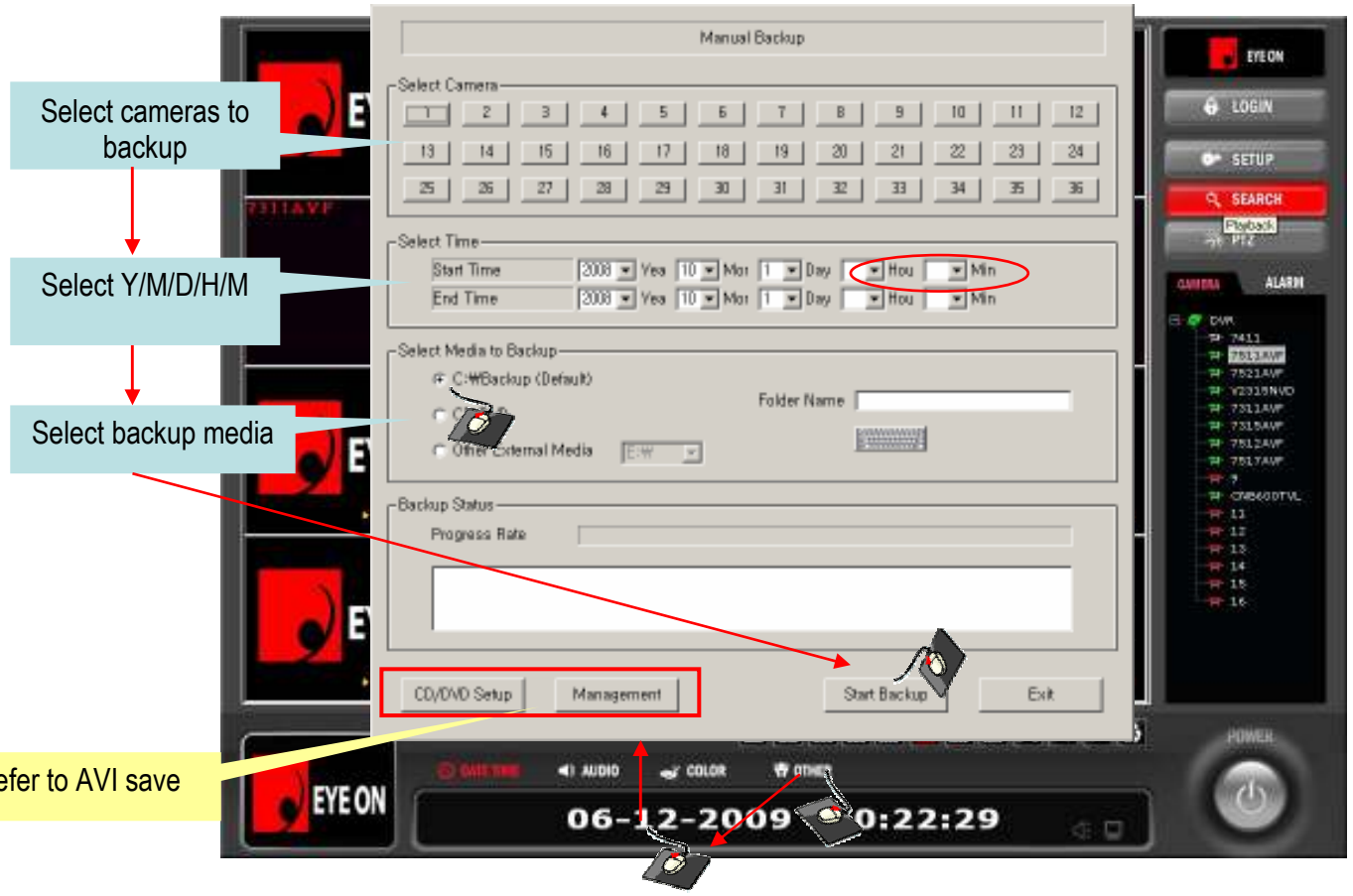


# Backup

## Manual Backup in Live View Window

Backup the data easily by Camera/Date/Hour/Minute

This is convenient to backup small data at once. (Operates the same as AVI Backup)




During this backup to CD/DVD, Backup Viewer is automatically copied together.

To view data, please use this.

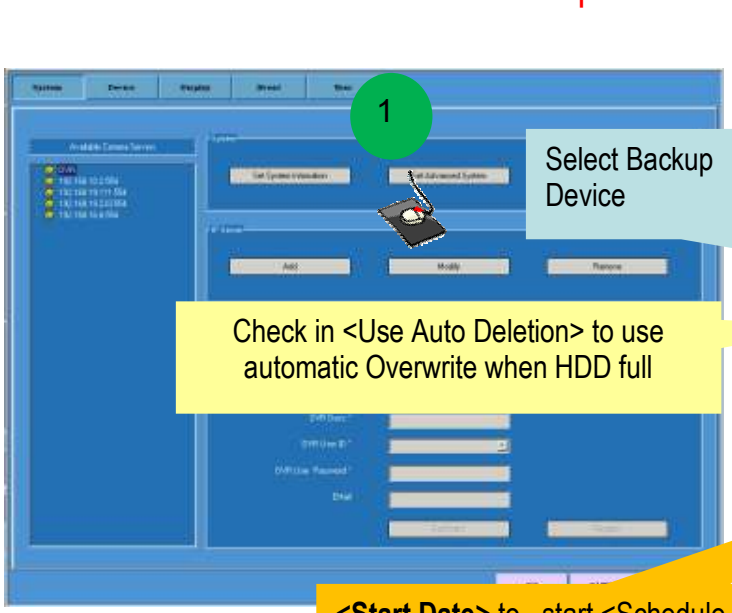
# Backup

## Schedule Backup

SETUP

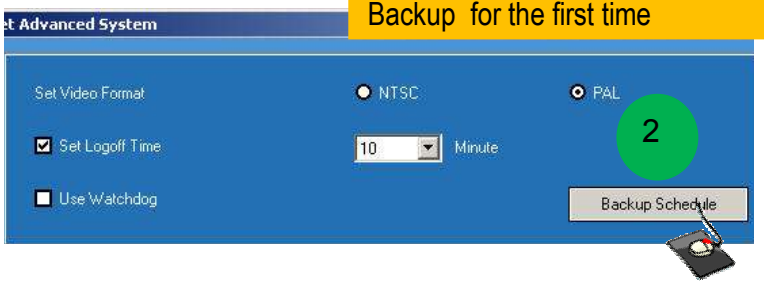
Go to <Setting => System => Set Advanced System>

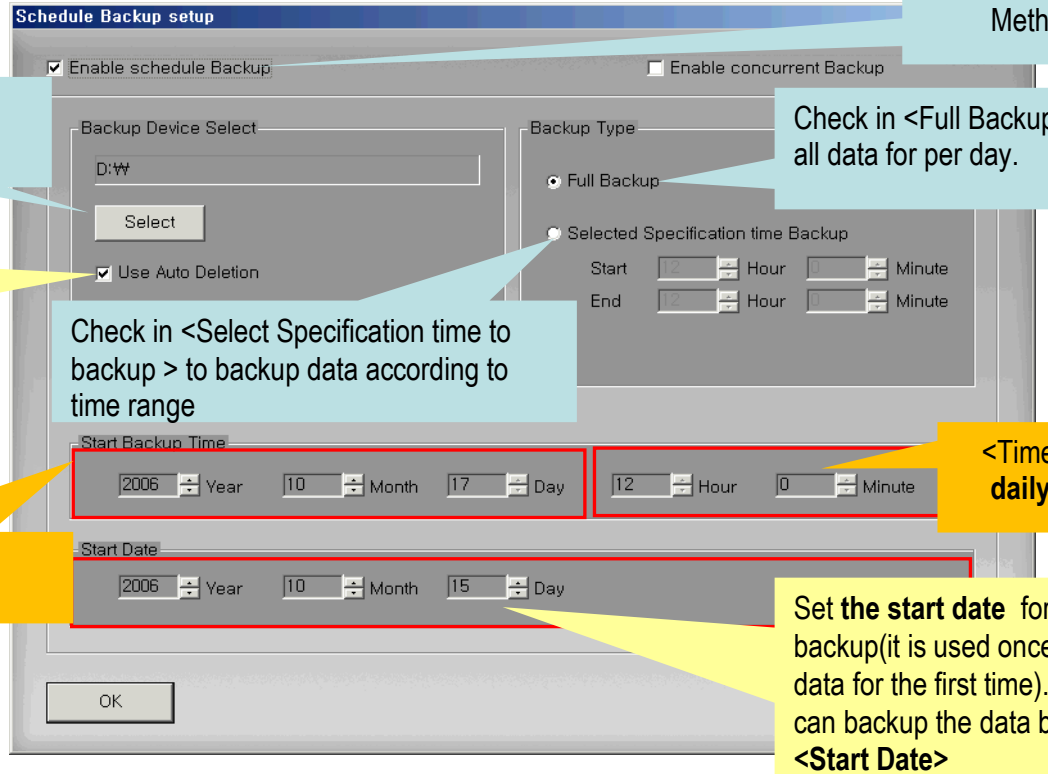
Can backup the data to select Device on Schedule




Select Backup Device

Check in <Use Auto Deletion> to use automatic Overwrite when HDD full




Check in Backup Method

Check in <Full Backup> to backup all data for per day.

Check in <Select Specification time to backup > to backup data according to time range

**<Start Date>** to start <Schedule Backup for the first time

<Time> to start **daily backup**

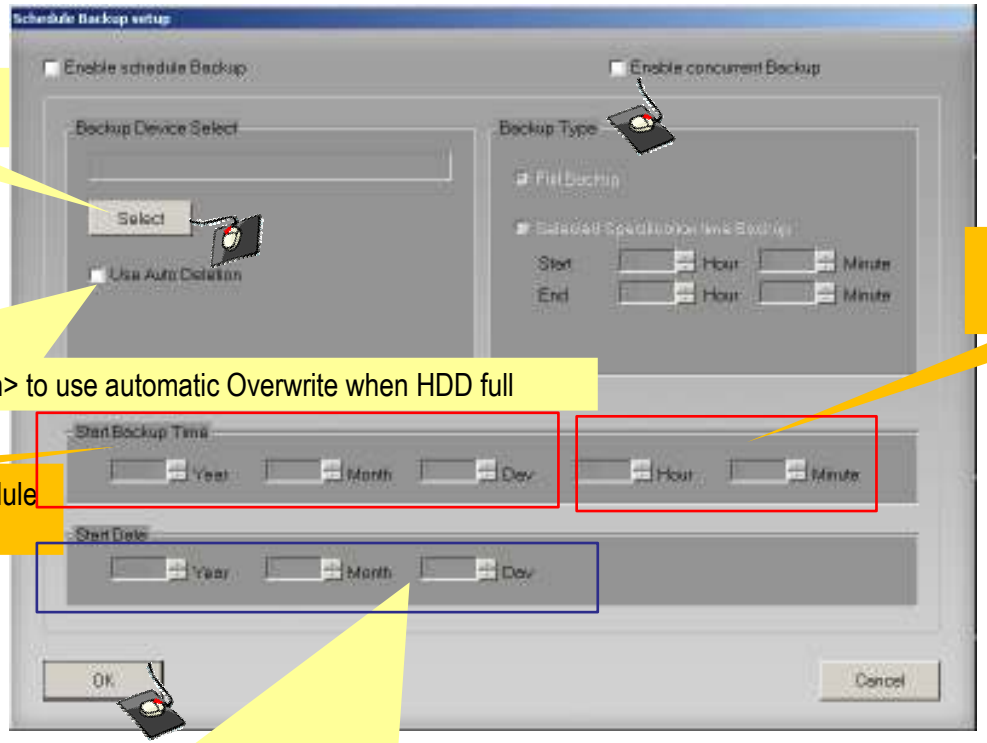
Set **the start date** for data to backup(it is used once to backup data for the first time). By this you can backup the data before Backup **<Start Date>**

After this , backup start daily based on daily backup time

# Backup

## Concurrent Backup

**<Concurrent Backup:> starts backup automatically to selected Drive when one DB basket is full**
(1 X ImageDB 1 (100MB) becomes 100MB, so simply it starts backup <Basket. to Basket> )



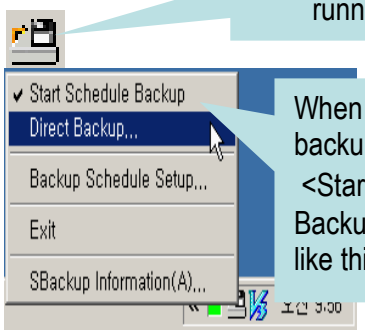

Select Drive to backup

Check in <Use Auto Deletion> to use automatic Overwrite when HDD full

**<Start Date>** to start <Schedule Backup for the first time

<Time> to start **daily backup**

In PC <Tray Bar> Sbackup Icon is running




When <Schedule backup> is setup <Start Schedule Backup> is checked like this

Set **the start date** for data to backup(it is used once to backup data for the first time). By this you can backup the data before Backup **<Start Date>** After this , backup start daily based on daily backup time

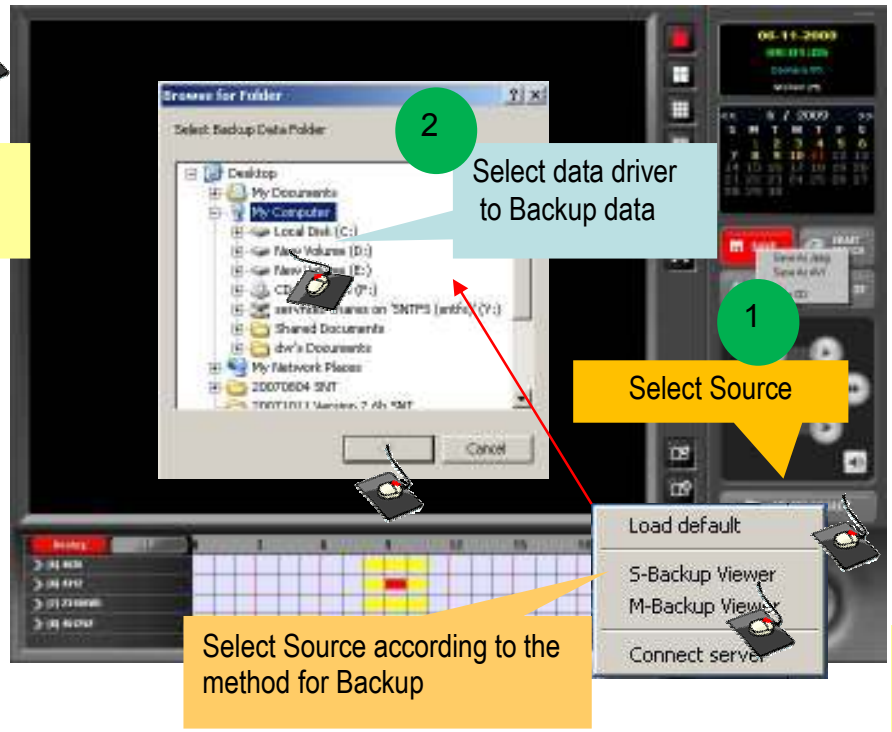
<N.B> Not check in <Start Schedule Backup>, <Start Schedule Backup> does not work.

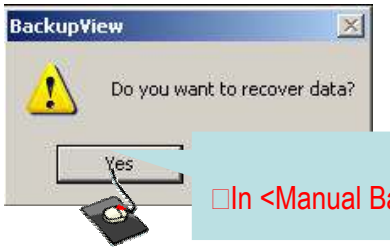
# Backup

## View backup data by <Backup Viewer>

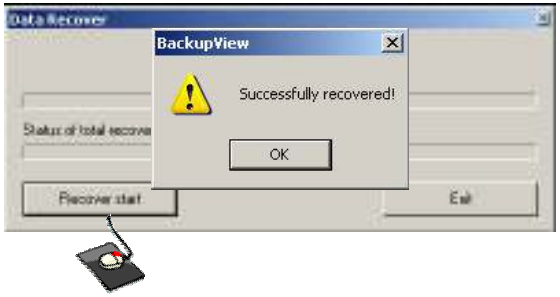
<Backup View> is used to search and playback all the data by <Manual, Schedule, Direct , Summer time  Backup> and <direct DAT  file copy> in Image DB (in maintenance mode)
For this users have to install <Backup Viewer Package>.

double click Backupview

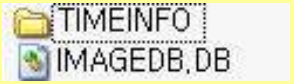



Yes
□In <Manual Backup> , no need to recovery.




<N.B>When <Recovery> is done, 2 files below are made.



# Backup

## View backup data by <Backup Viewer>

Search method is the same as <Local  Search>.

N.B Different things : Select folder  button for recovery and AVI backup.

□When once <DATA> is  Recovery, no need to backup, when there is no change. But any changes in data or driver (for backup), have to recover again.

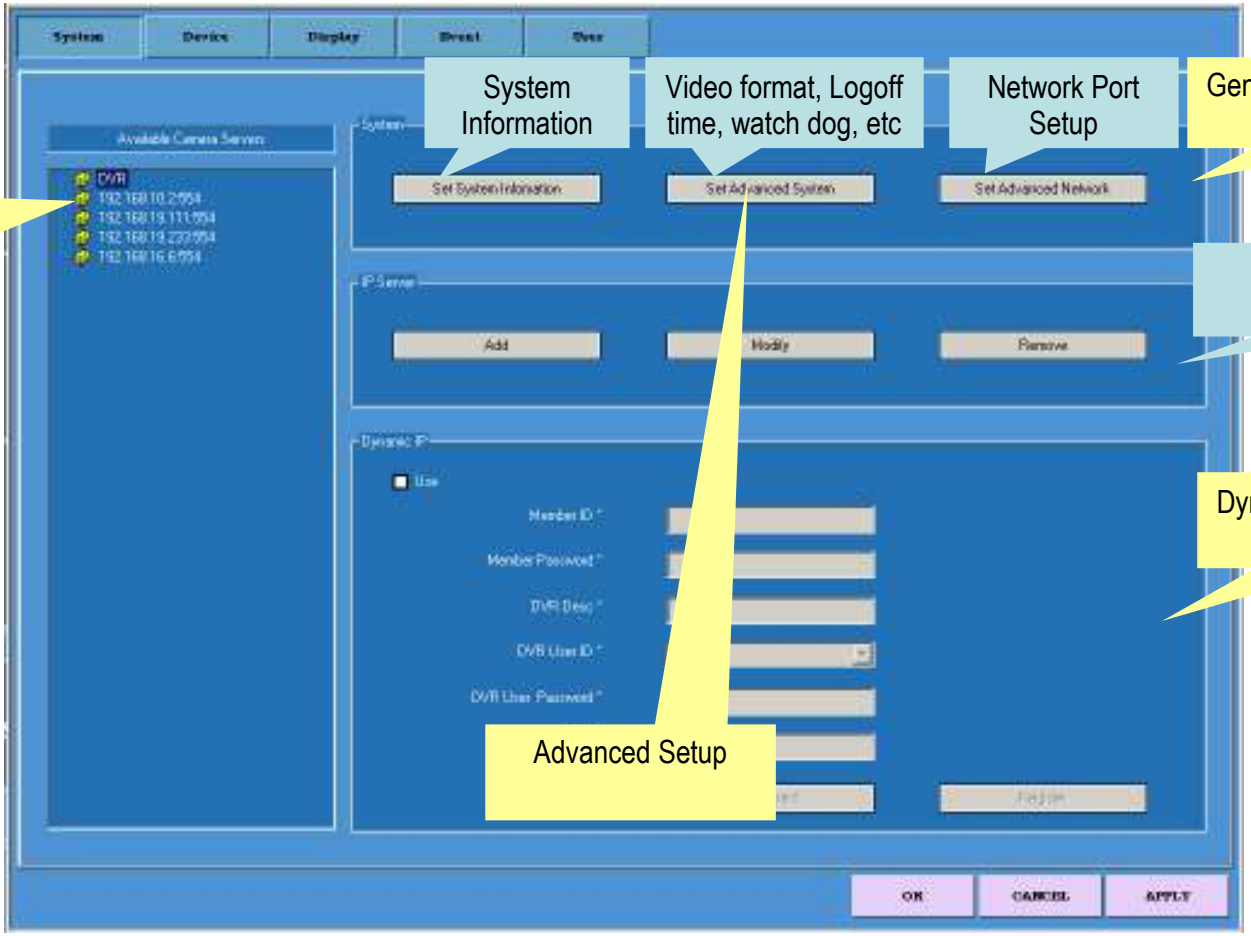
□To move and copy to <Recovered backup data > to other Disk or Driver, users have to <Recover> it.
(Manual backup Data : No need to Recover)

# System Setup

## System Setup

SETUP

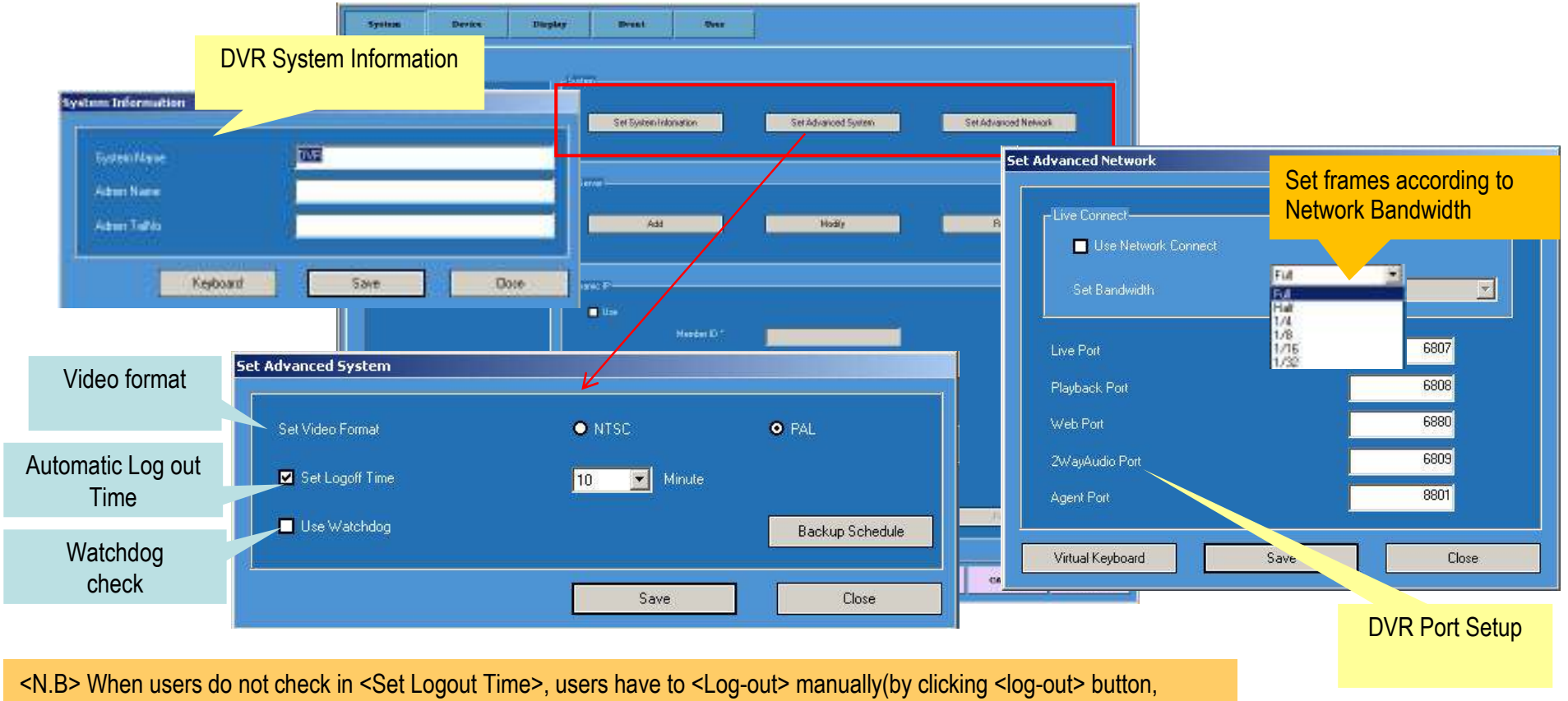
Go to <Setup=> System> (General DVR System Setup)



# System Setup

## System Setup

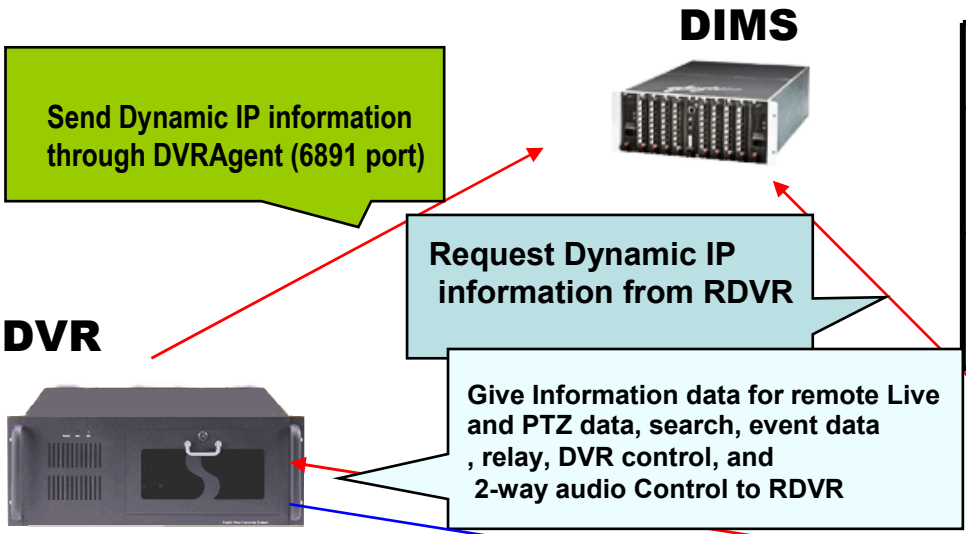
Go to <Setup=> System> (General DVR System Setup)




<N.B> When users do not check in <Set Logout Time>, users have to <Log-out> manually(by clicking <log-out> button, when want to log-out.

# System Setup

## System Setup: Port Setup


DIMS
Send Dynamic IP information through DVRAgent (6891 port)
Request Dynamic IP information from RDVR
DVR
Give Information data for remote Live and PTZ data, search, event data , relay, DVR control, and 2-way audio Control to RDVR
R-DVR (user#1)
RDVR
Give events information to RDVR

| S/W | Port No | Function |
|---|---|---|
| DvrAgent, DVRAgent | 6891 | Give Dynamic IP information to DVR |
| IP RDvrAgent, Svr2Dvr MF | 6892 | RDVR Requests IP information |

| S/W | Port No | Function |
|---|---|---|
| DVR DVR | 6807 | Remote Live and Data (PTZ and Configuration data) |
| RSEngine RSEngine MFC | 6808 | Remote Search |
| AgentClient AgentClient MFC | 8801 | Relay, DVR Control Data (for shut down and reboot and etc) |
| RDVR2WayServer RDVR2WayServer MFC | 6809 | 2-way audio |

| S/W | Port No | Function |
|---|---|---|
| AgentServer, | 8800 | Information related to Events |

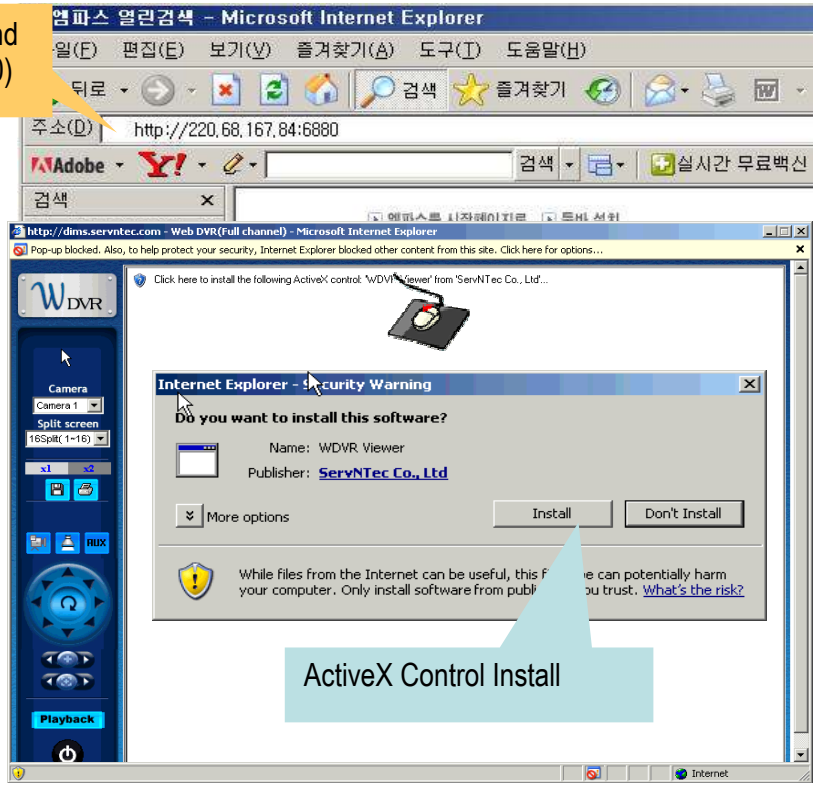
**Each SW exchanges these kind information through each port**

# Live View

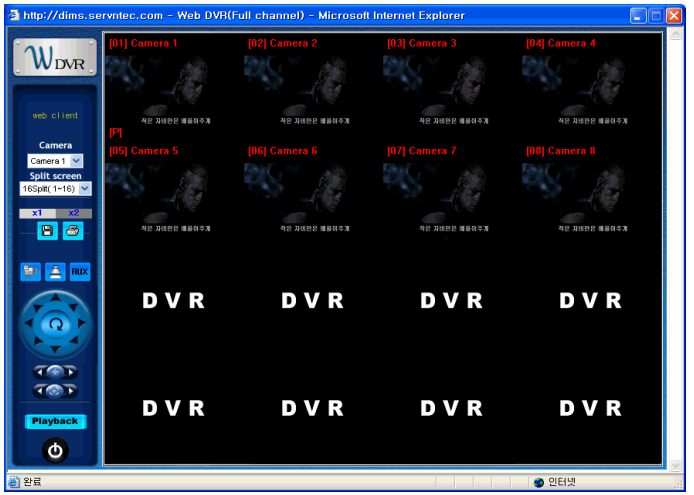
## System Setup: Direct Web

Enter Fixed IP in Web Browser (Direct Web)

Enter DVR IP and Web port (:6880)


엠파스 열린검색 - Microsoft Internet Explorer
주소(D) http://220.68.167.84:6880
http://dims.servntec.com - Web DVR(Full channel) - Microsoft Internet Explorer
Internet Explorer - Security Warning
Do you want to install this software?
Name: WDVR Viewer
Publisher: ServNTec Co., Ltd
More options
Install
Don't Install
While files from the Internet can be useful, this file can potentially harm your computer. Only install software from publishers you trust. What's the risk?
Camera
Split screen
Playback
ActiveX Control Install

<Live View in WEB DVR>



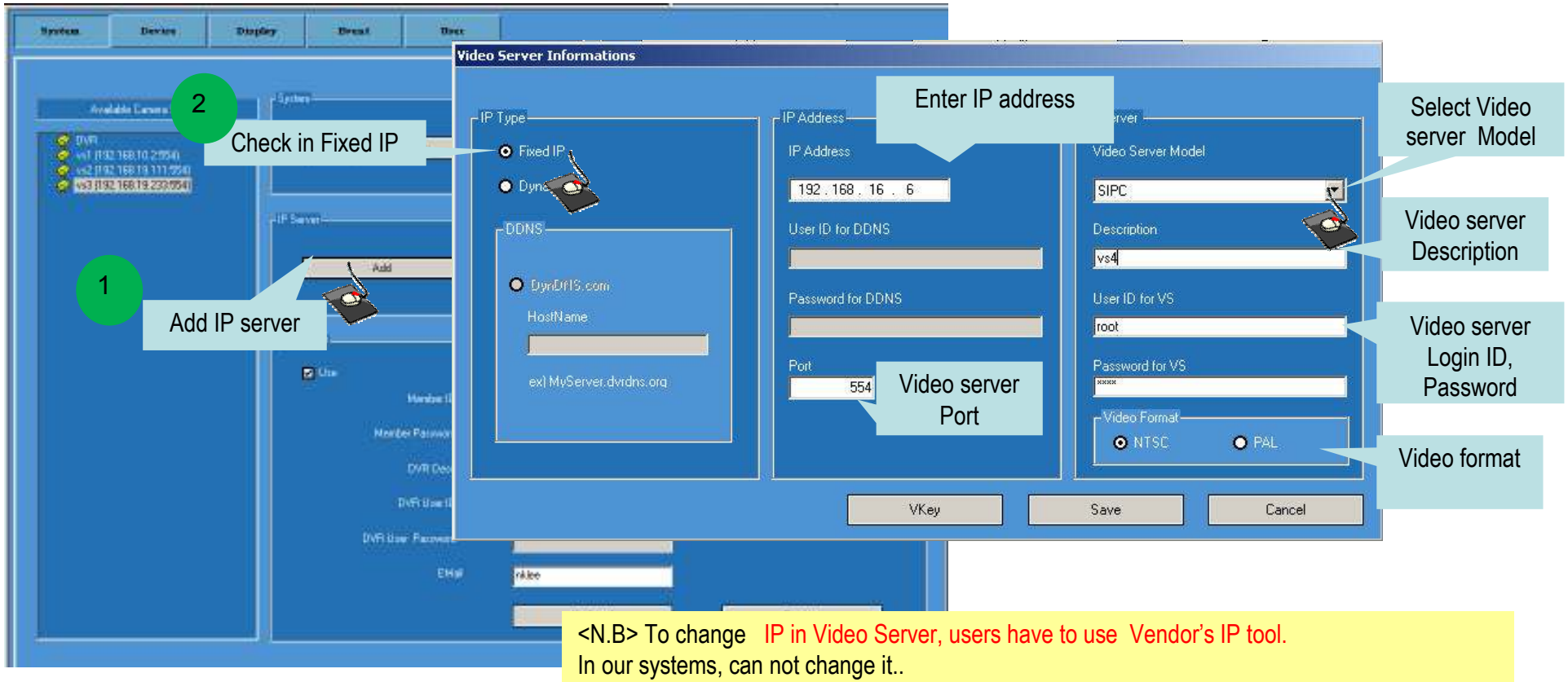

<Search in WEB DVR>

# System Setup

## System Setup: IP Product Setup(Fixed IP)

To add IP product and setup <IP Product> (Video server, IP camera)

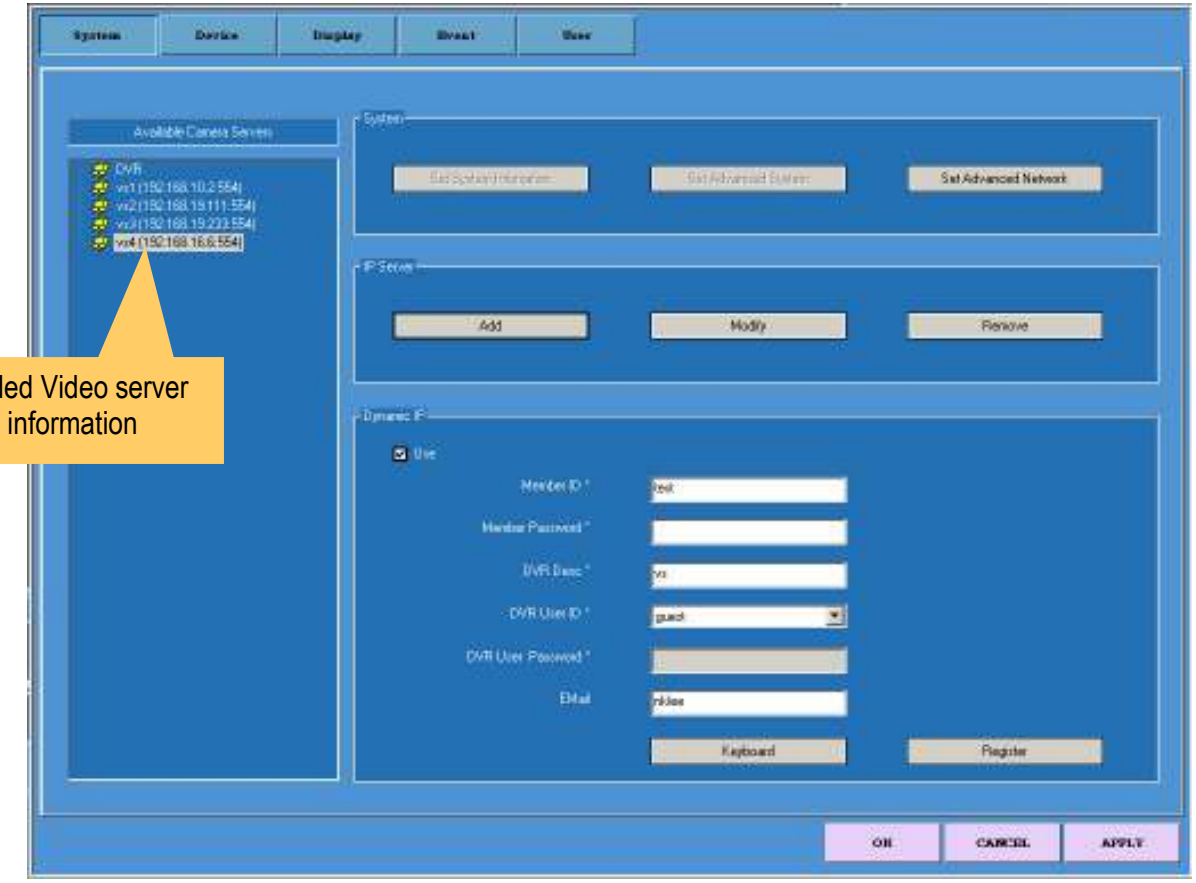
In case IP products using fixed IP




<N.B> To change IP in Video Server, users have to use Vendor's IP tool.
In our systems, can not change it..
For more detail, please refer to IP Setup manual and chapter.

# System Setup

## System Setup: IP Product Setup(Fixed IP)




Added Video server information

<N.B> **How to setup and add IP in Fixed IP**

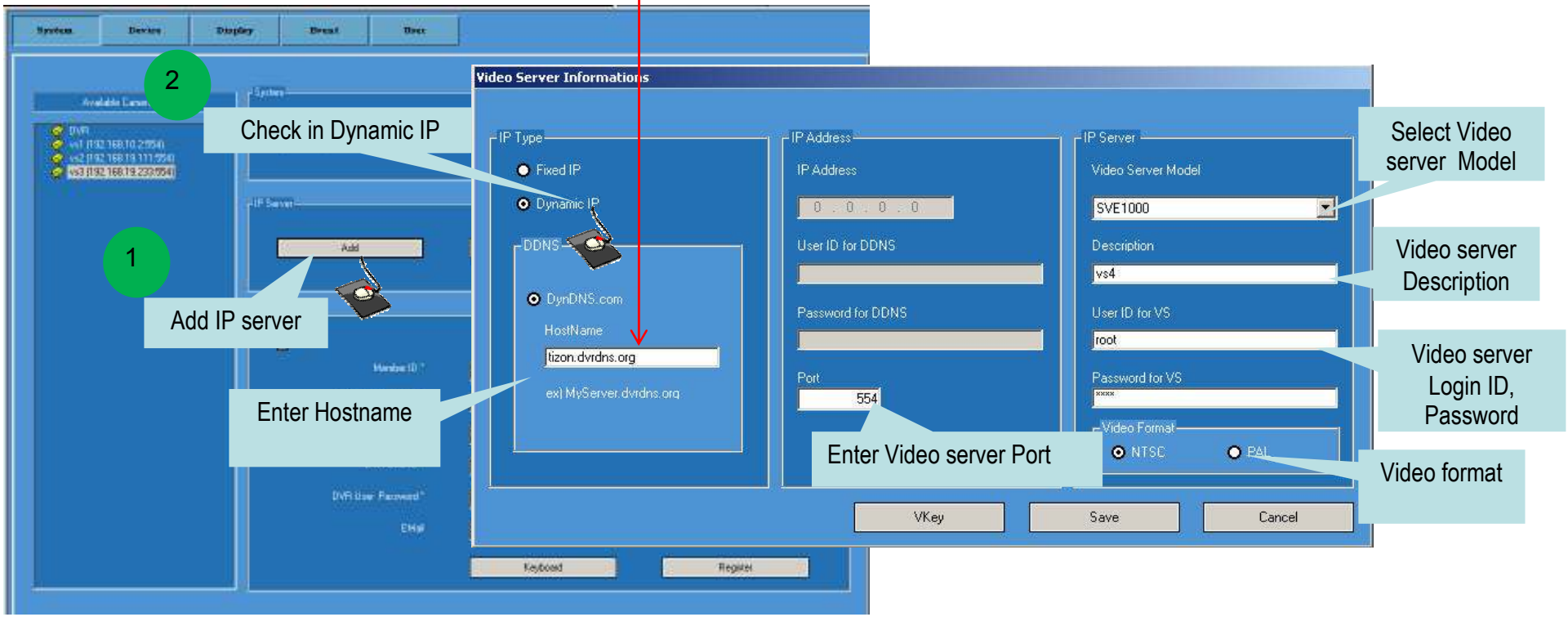
1 Setup Network by .<Ipadmintool>
2. Setup Network information in DVR setup

# System Setup

## System Setup: IP Product Setup(Dynamic IP)

To add IP product and setup <IP Product> (Video server, IP camera) in Dynamic IP

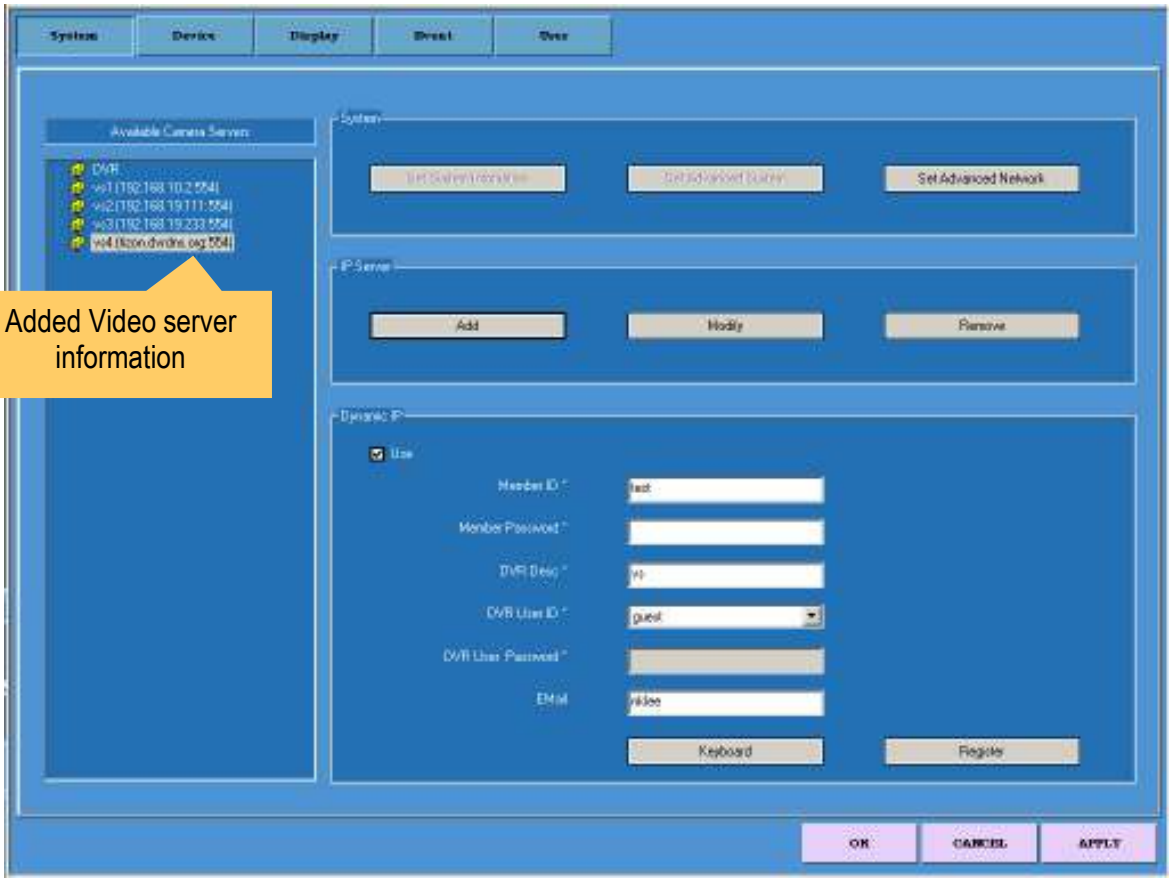
Can use <Dynamic IP> through common DDNS service DDNS ( www.noip.com or www.dyndns.com )



# System Setup

## System Setup: IP Product Setup(Dynamic IP)

To add IP product and setup <IP Product> (Video server, IP camera) in Dynamic IP




Added Video server information

<N.B> **How to setup and add IP in Dynamic IP**

1. Register in www.dyndns.com or , www.noip.com

<When using Dynamic IP direclty for IP product>

2. Use [Setup Network by using <Vendor IP tool>] or enter Dynamic IP information registered in www.dyndns.com or www.noip.com

<When using Router>
2. Go to IP router an setup < Dynamic DNS Host >
2-1.Have to make IP Products Fixed IP using Vendor IP Setup tool and setup that by <admintool> too.

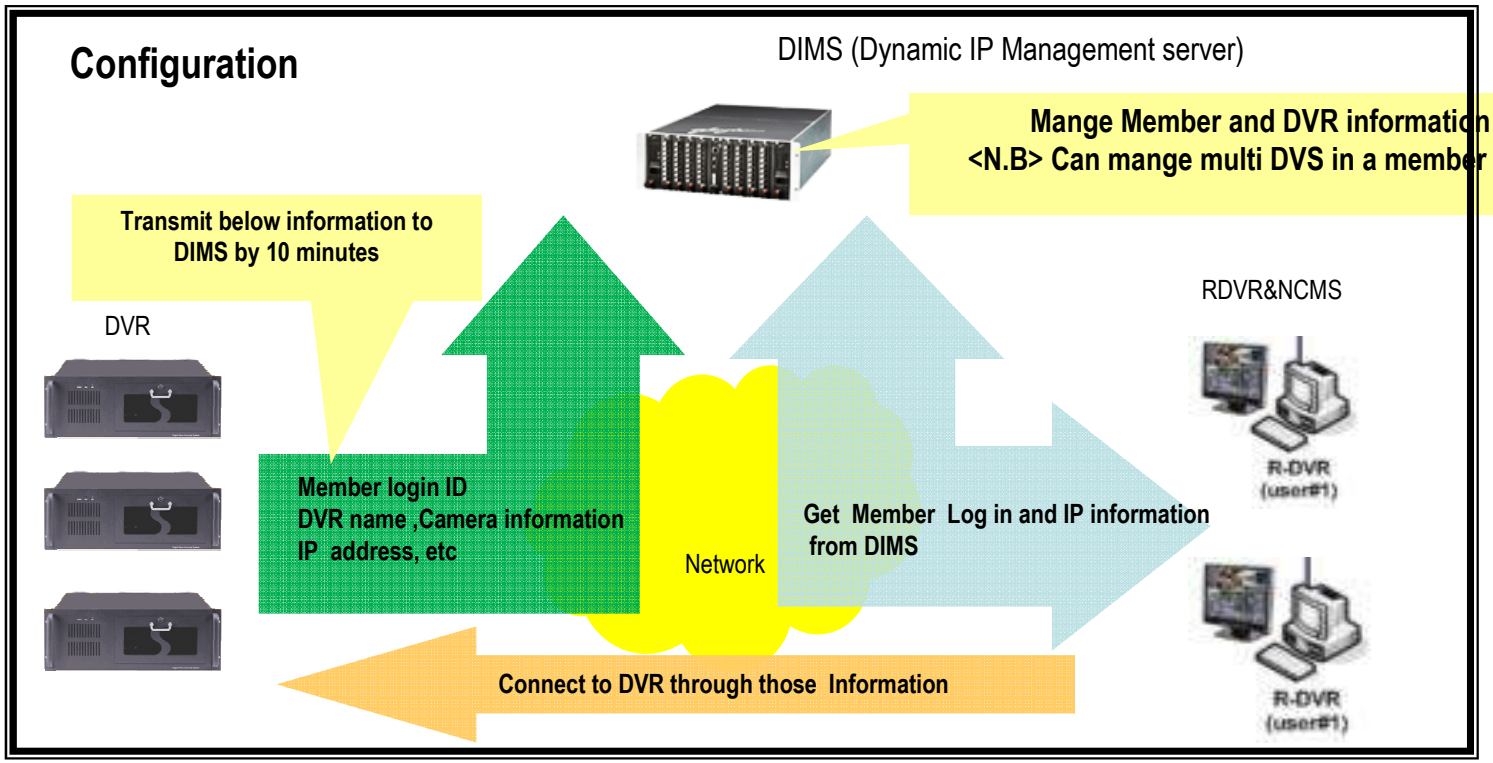
5. Setup Network information in DVR setup

# System Setup

## System Setup: Setup DVR in Dynamic IP(DIMS)

To setup Dynamic IP (DIMS)

### Understand SNT DIMS (Dynamic IP Management Server)



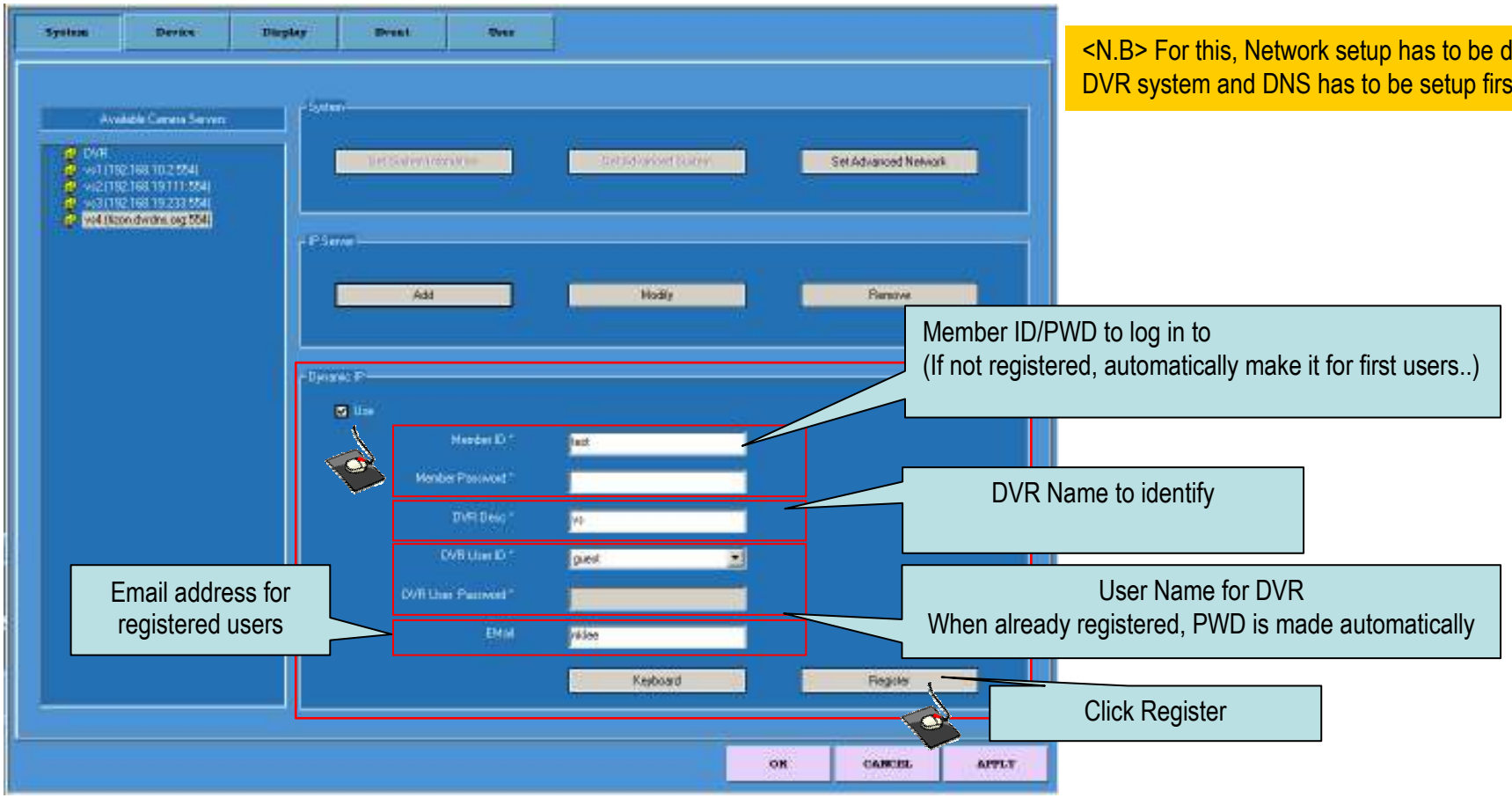

<N.B> Two way to register in DIMS server
1. Go to www.dvrdns.biz and register Member ID/PWD
2.In Securus setup and register in system tab.

# System Setup

## System Setup: Setup DVR in Dynamic IP(DIMS)

To Setup DVR in Dynamic IP

**In case using Dynamic IP for DVR (Direct Registration and Setup in DVR)**

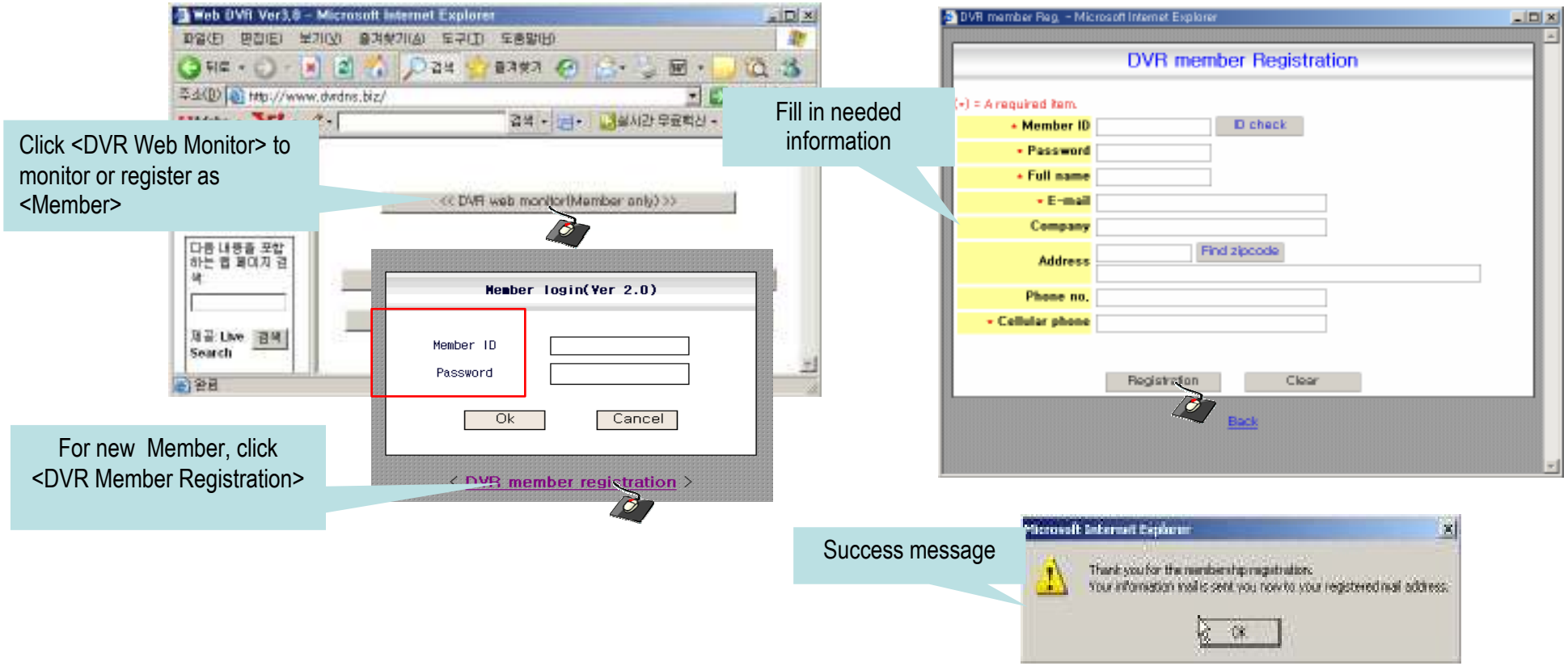


# System Setup

## System Setup: Register in DIMS to use Dynamic IP

### Register in DIMS

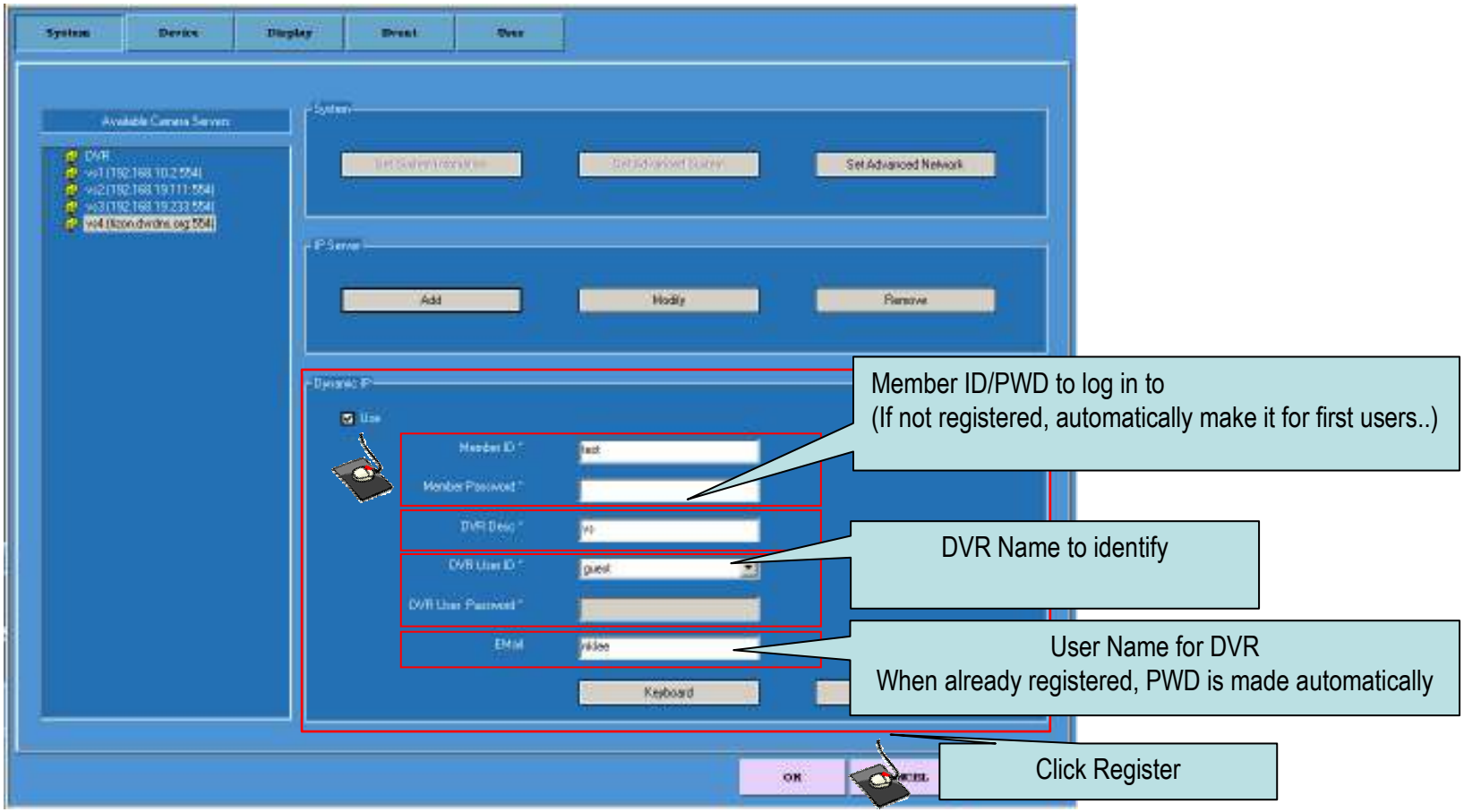
Go to http://www.dvrdns.biz and register as <member> and <password> (DIMS User)



# System Setup

## System Setup: Register in DIMS to use  Dynamic IP

To register and setup by <Member ID and PWD> registered in DIMS

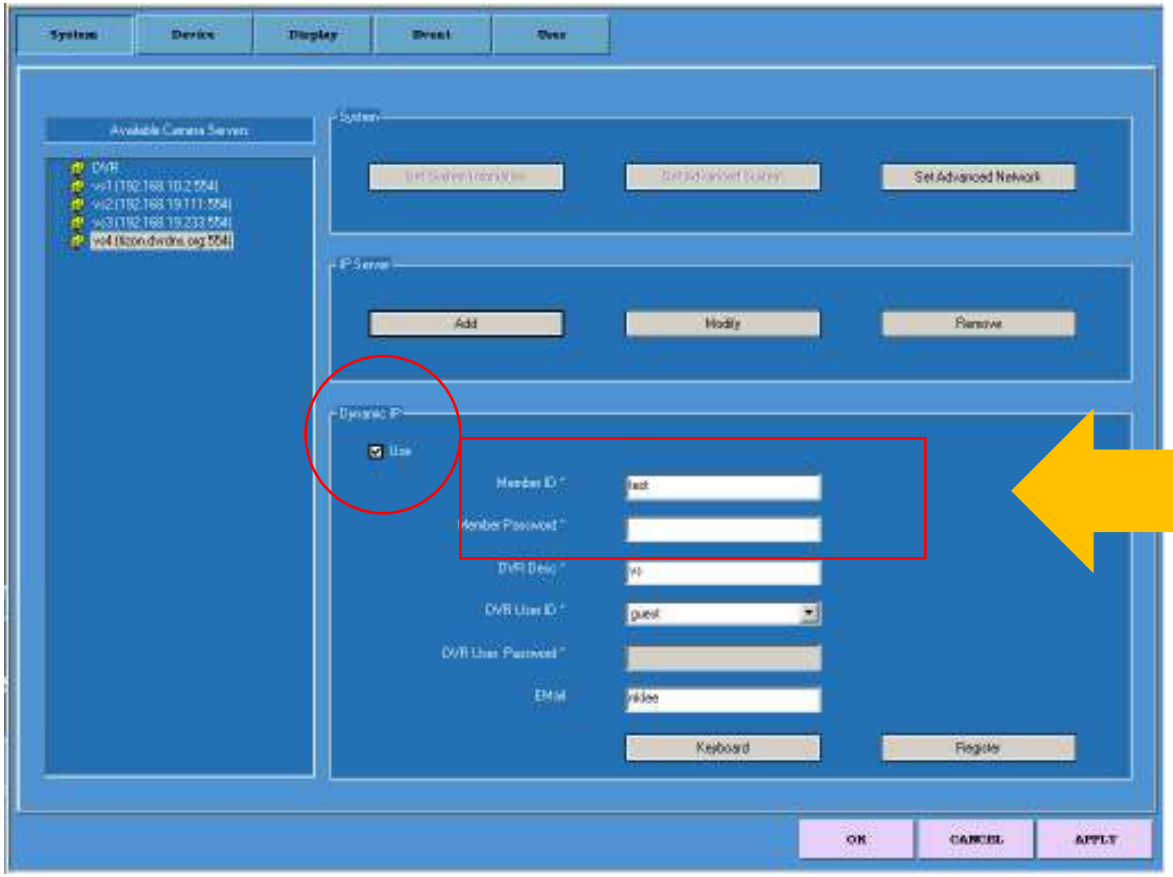

Member ID/PWD to log in to
(If not registered, automatically make it for first users..)
DVR Name to identify
User Name for DVR
When already registered, PWD is made automatically
Click Register

# System Setup

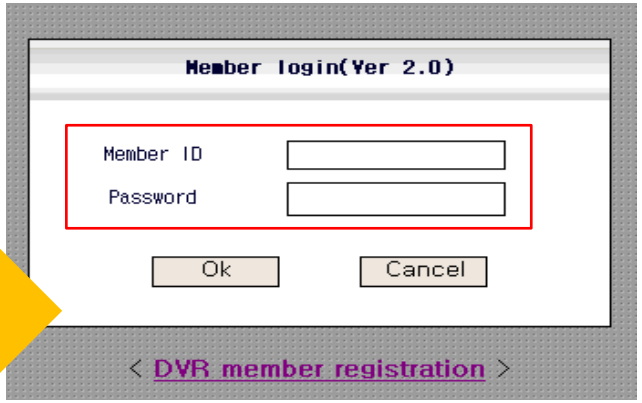
## System Setup: Setup DVR and Registration in DIMS to use Dynamic IP(WEB DVR)

To Setup DVR  and registration in DIMS

**In case DVR using Dynamic IP**



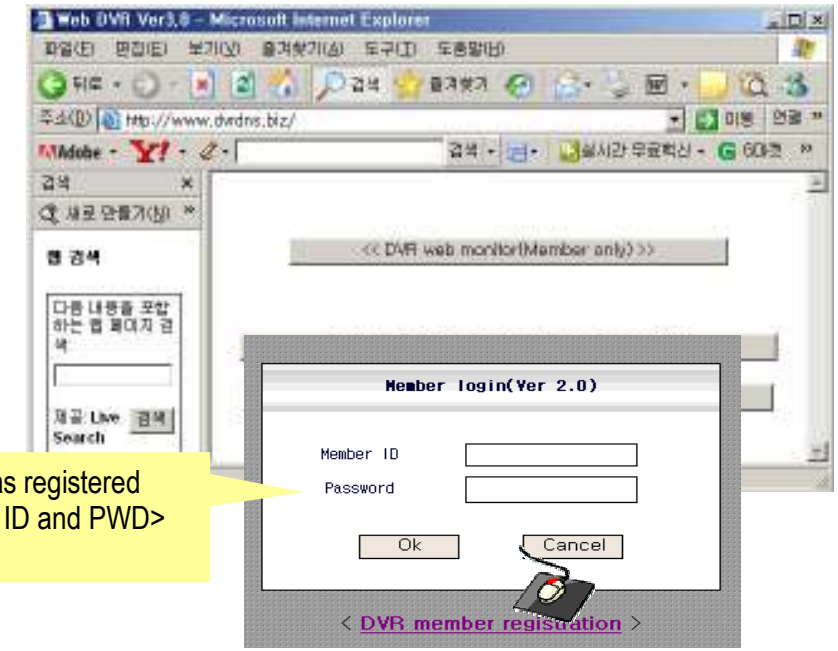

**Have to enter the same <Member IP and password > in DIMS and DVR**



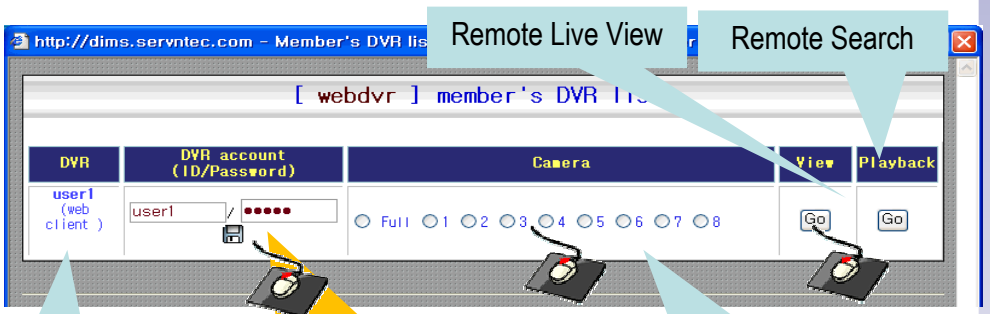
# System Setup

## System Setup: Log into DIMS and use WEB DVR(WEB Client)

Log into DIMS and monitor DVRs by Web Brower (Internet Explorer only) (WEB DVR)




Log in as registered
<Member ID and PWD>




Remote Live View

Remote Search

DVR ID

Have to enter DVR User ID PWD and Save

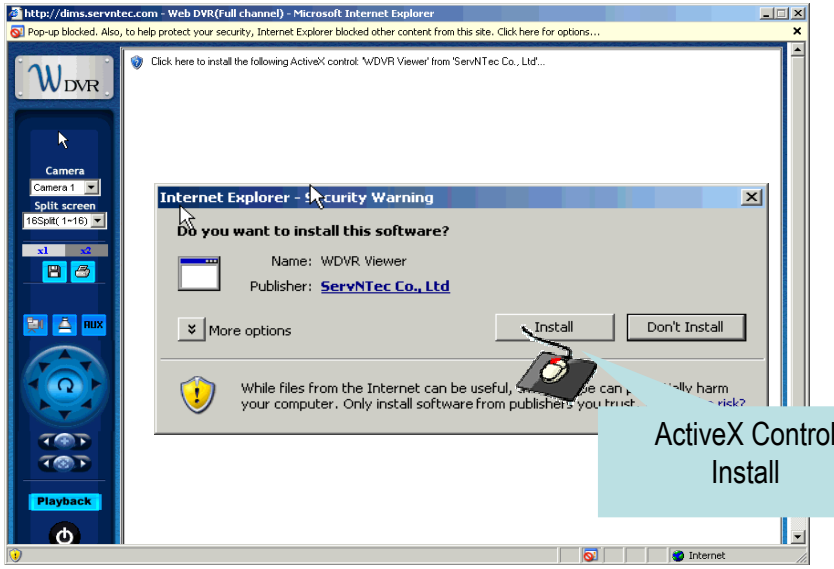
Select cameras want to monitor

| DVR | DVR account (ID/Password) | Camera | View | Playback |
|---|---|---|---|---|
| basic2000 (test ) | 1 / | Full | Off | Off |
| bechoi (bechoila ) | / | Full | Off | Off |
| comart ( ) | / | Full | Off | Off |
| dvr3 (servntec dvr ) | / | Full | Off | Off |
| hb36 (pc1 ) | / | Full 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | Off | Off |

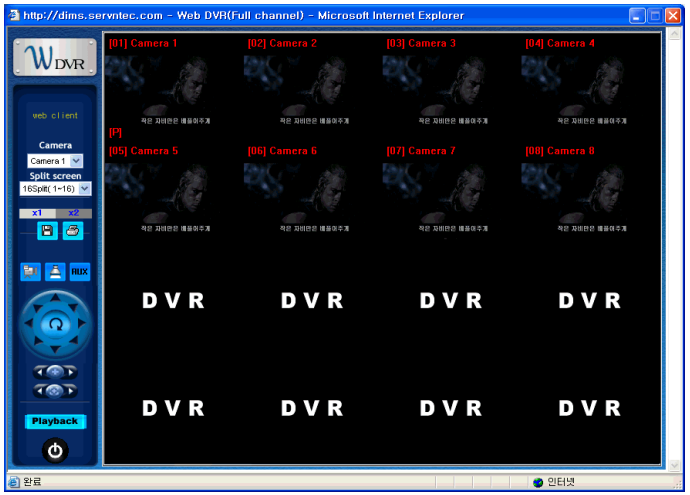
OFF: DVR is <Power off> or <Network is dead>.

# System Setup

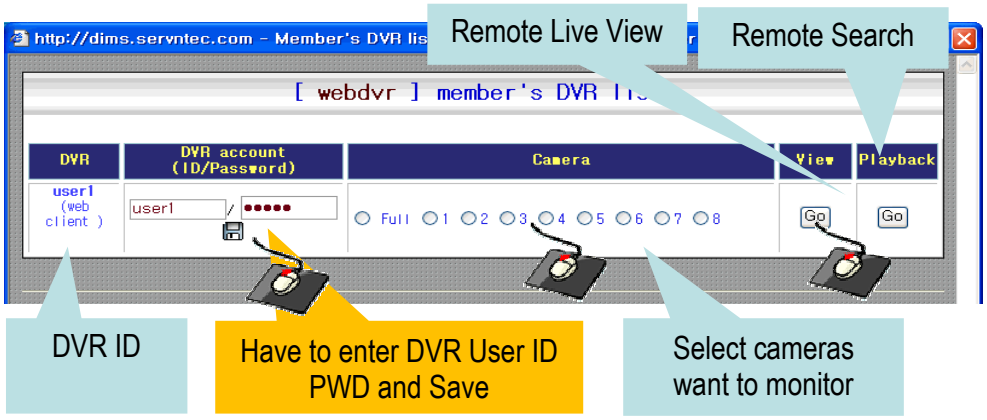
## System Setup: Log into DIMS and use WEB DVR(WEB Client)

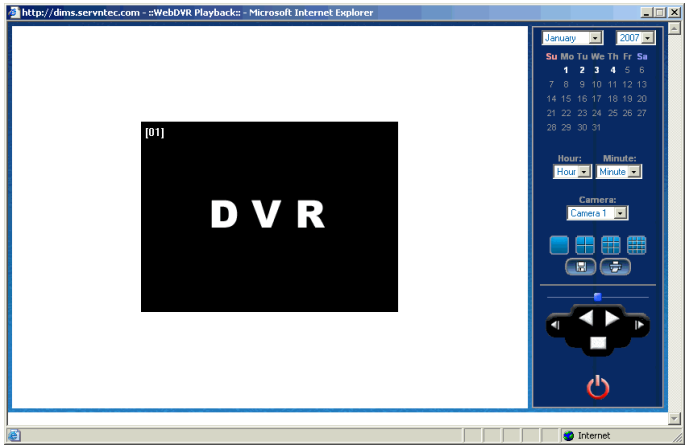

http://dims.servntec.com - Web DVR(Full channel) - Microsoft Internet Explorer
Pop-up blocked. Also, to help protect your security, Internet Explorer blocked other content from this site. Click here for options...
Click here to install the following ActiveX control: 'WDVR Viewer' from 'ServNTec Co., Ltd'...
Internet Explorer - Security Warning
Do you want to install this software?
Name: WDVR Viewer
Publisher: ServNTec Co., Ltd
More options
Install
Don't Install
While files from the Internet can be useful, ... your computer. Only install software from publishers you trust.
Camera
Split screen
Playback
Internet
ActiveX Control Install

<Live View in WEB DVR>




<Search in WEB DVR>



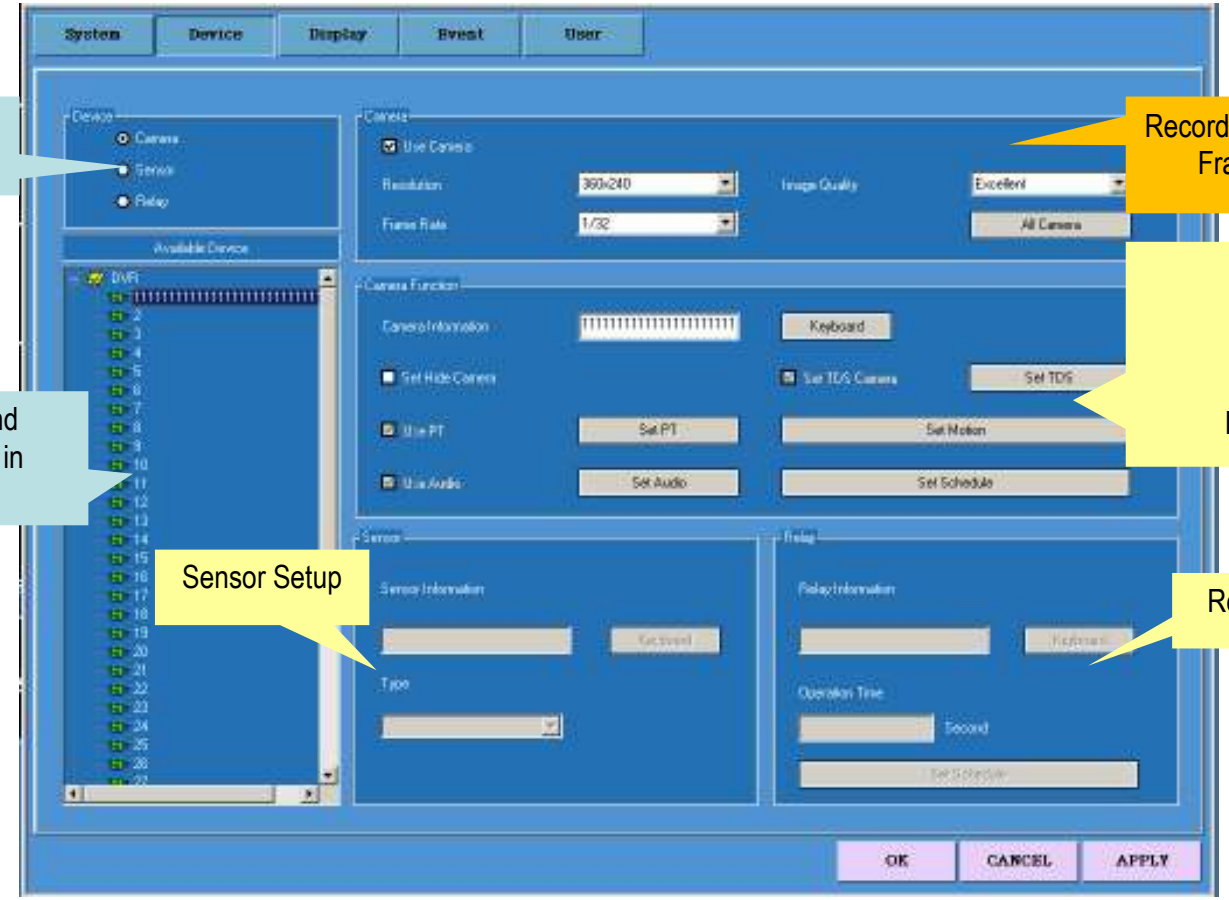
# System Setup

## System Setup: Device Setup

SETUP

### Go to <Setup=> Device>

Setup Camera and Video information.
Setup  Alarm In/Out (Sensor, Relay) information




Check in Device to setup

Recording Resolution, Image Quality, Frame rate(fps) **per camera**

Camera Setup
PTZ Setup
Audio Setup
Recording Schedule
Motion Detection Setup

Connected Camera and IP product information in Menu Tree

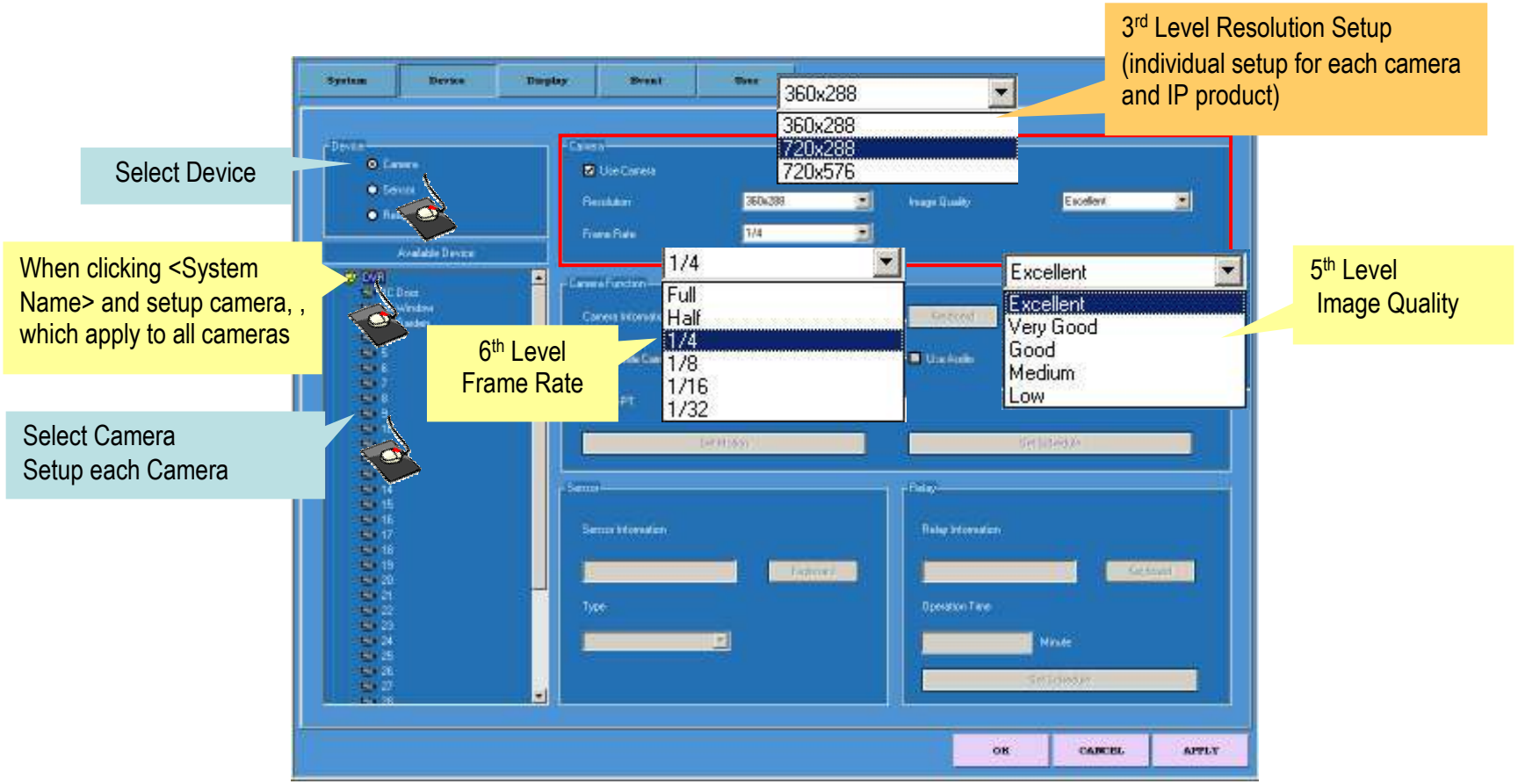
Sensor Setup

Relay Setup

# System Setup

## System Setup: Device Setup

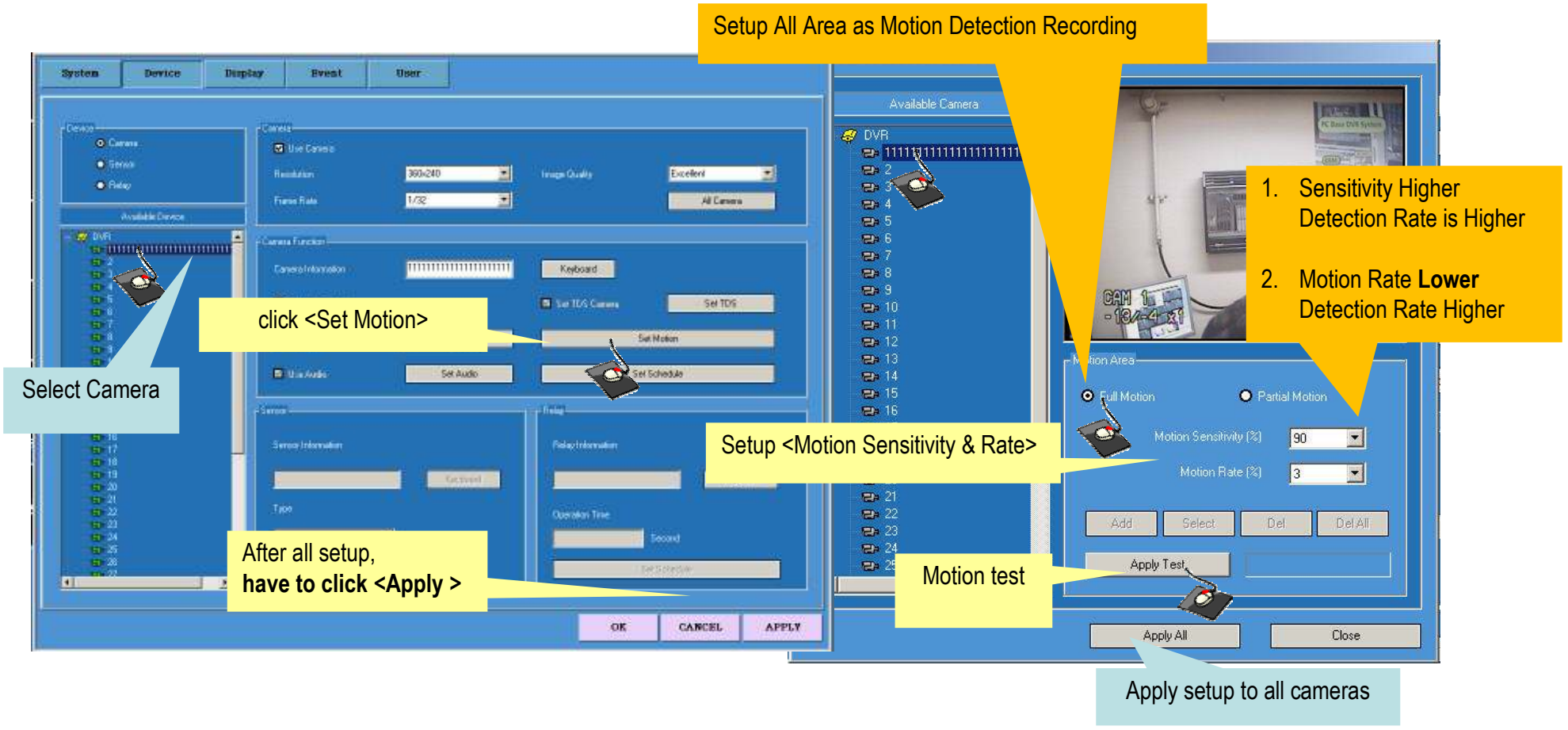
To setup values of Recording Image (Video)



# System Setup

## System Setup: Device Setup/Motion Recording

### To Setup for <Motion Recording>

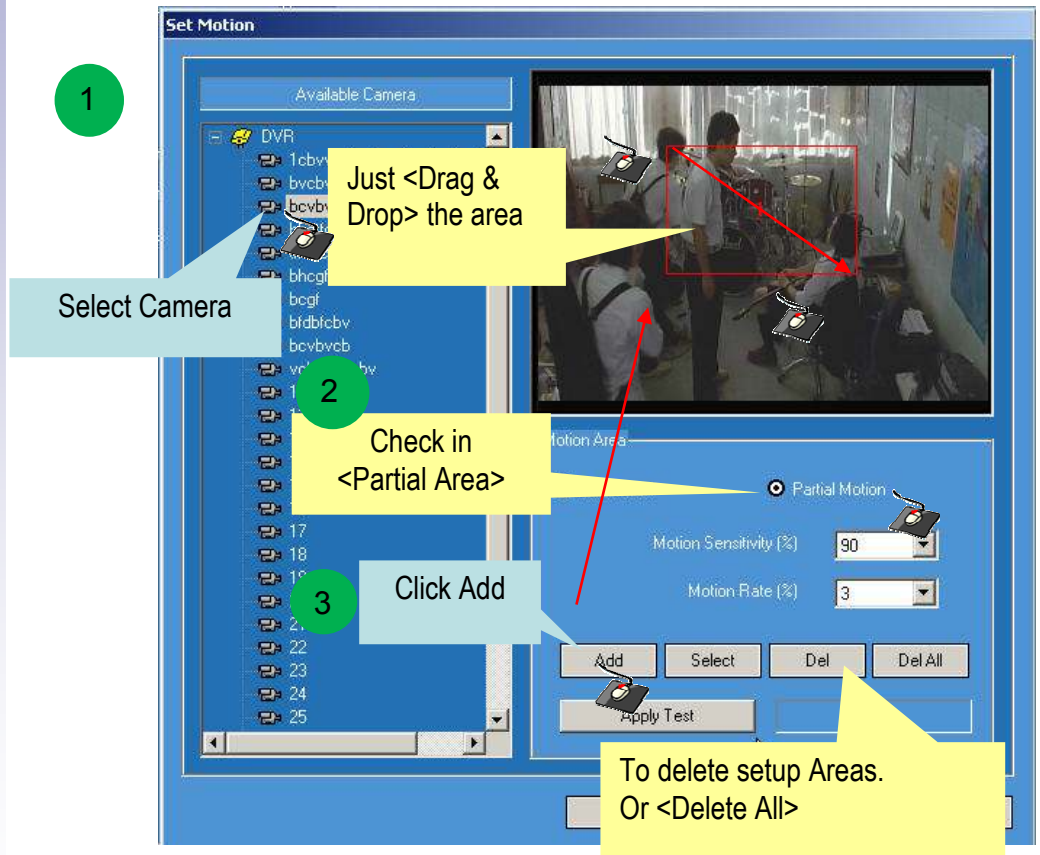



<N.B> According to Video server Vendors, they can not support <Sensitivity and Rate> control, and vary the available values.

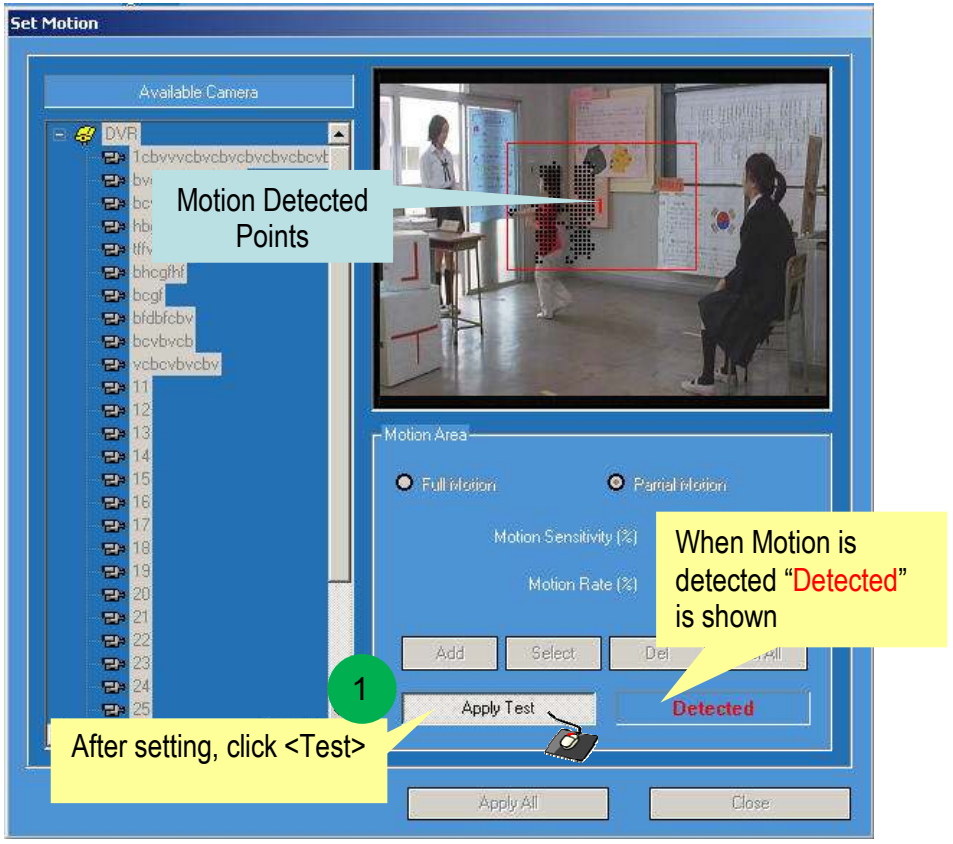
# System Setup

## System Setup: Device Setup/Motion Recording

### Make Motion Detection Areas(Max 8)




### Test Motion Detection



# System Setup

## System Setup: Device Setup/Motion Recording/Recording Schedule

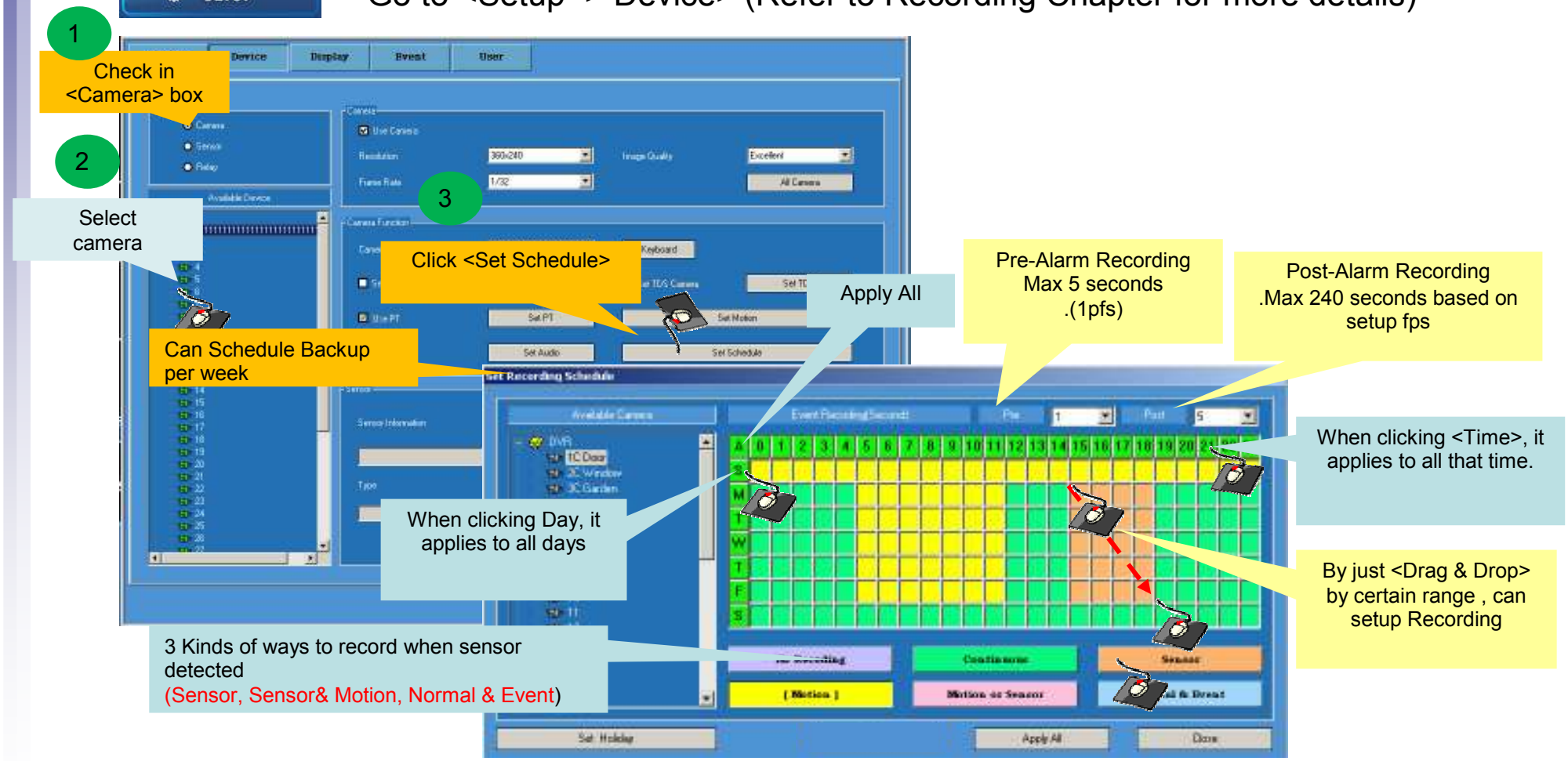
### Setup <Recording Schedule >

# System Setup

## System Setup: Device Setup/Motion Recording/Recording Schedule

SETUP

Go to <Setup=> Device> (Refer to Recording Chapter for more details)

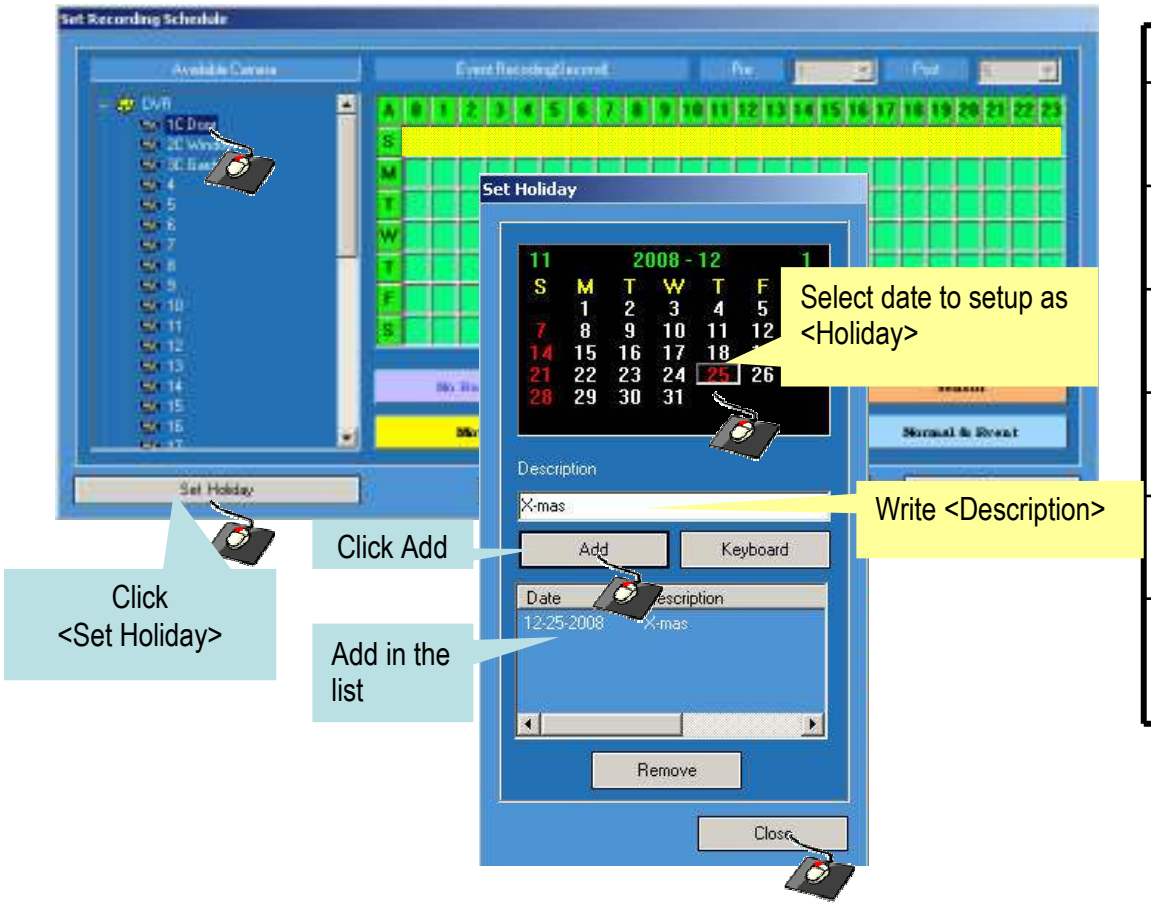

1
Check in <Camera> box
2
Select camera
3
Click <Set Schedule>
Can Schedule Backup per week
Apply All
Pre-Alarm Recording Max 5 seconds .(1pfs)
Post-Alarm Recording .Max 240 seconds based on setup fps
When clicking <Time>, it applies to all that time.
When clicking Day, it applies to all days
By just <Drag & Drop> by certain range , can setup Recording
3 Kinds of ways to record when sensor detected
(Sensor, Sensor& Motion, Normal & Event)

# System Setup

## System Setup: Device Setup/Holiday Recording Setup

### <Holiday Recording Schedule Setup>

In Holiday setup, Recording is done by Sunday schedule



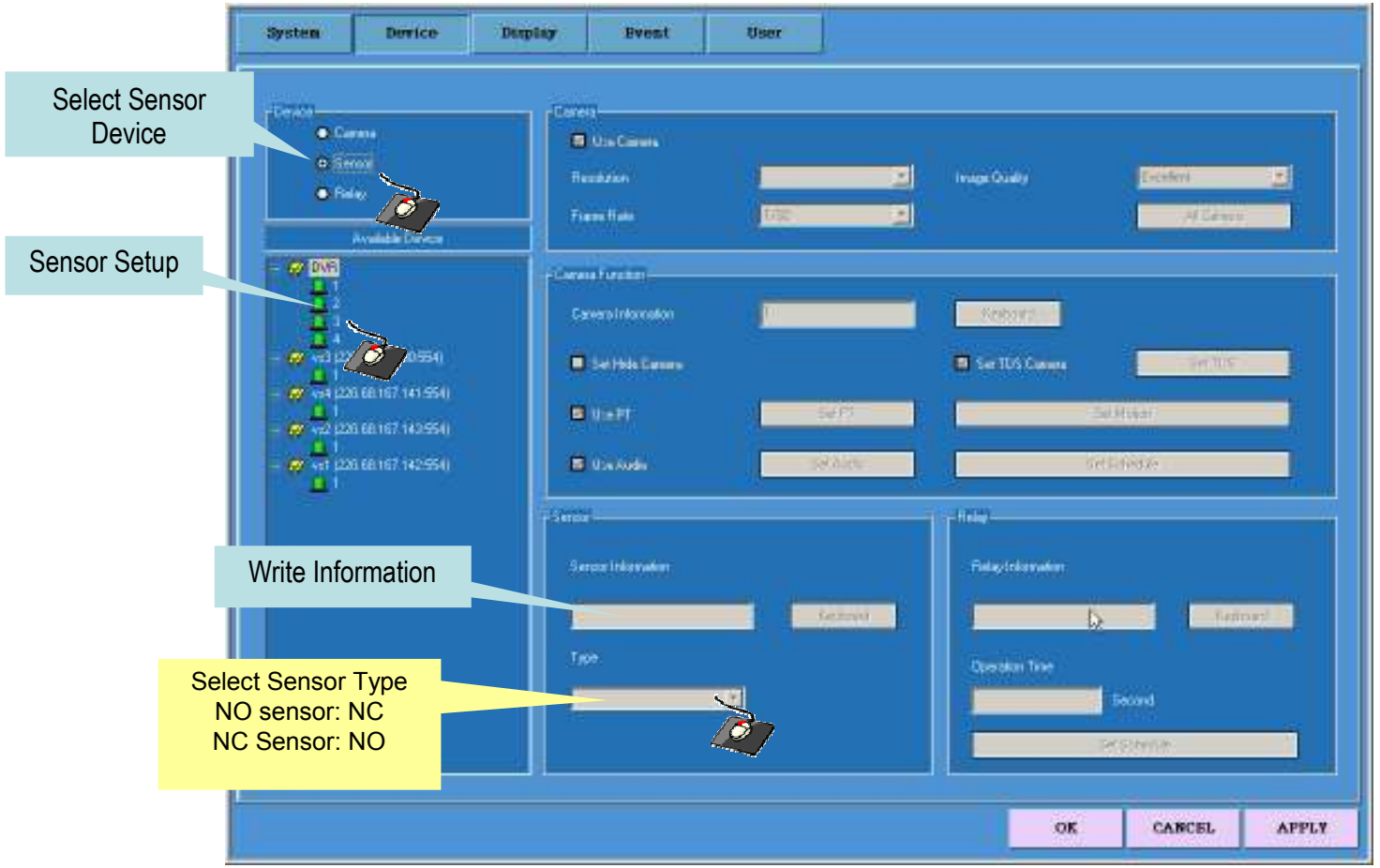

| Recording Mode | Description | Pre/Post |
|---|---|---|
| No Recording | No Recording | |
| Continuous | Continuous | |
| Motion | Motion Recording | Yes |
| Sensor | Sensor Recording | Yes |
| Sensor & Motion | Recording in Sensor and Motion Detection | Yes |
| Normal & Event | Recording in small fps, but Recording Max fps in Events | Yes |

# System Setup

## System Setup: Device Setup/Sensor Recording Setup

### <Sensor Recording Setup>

Setup Sensor Information and Type



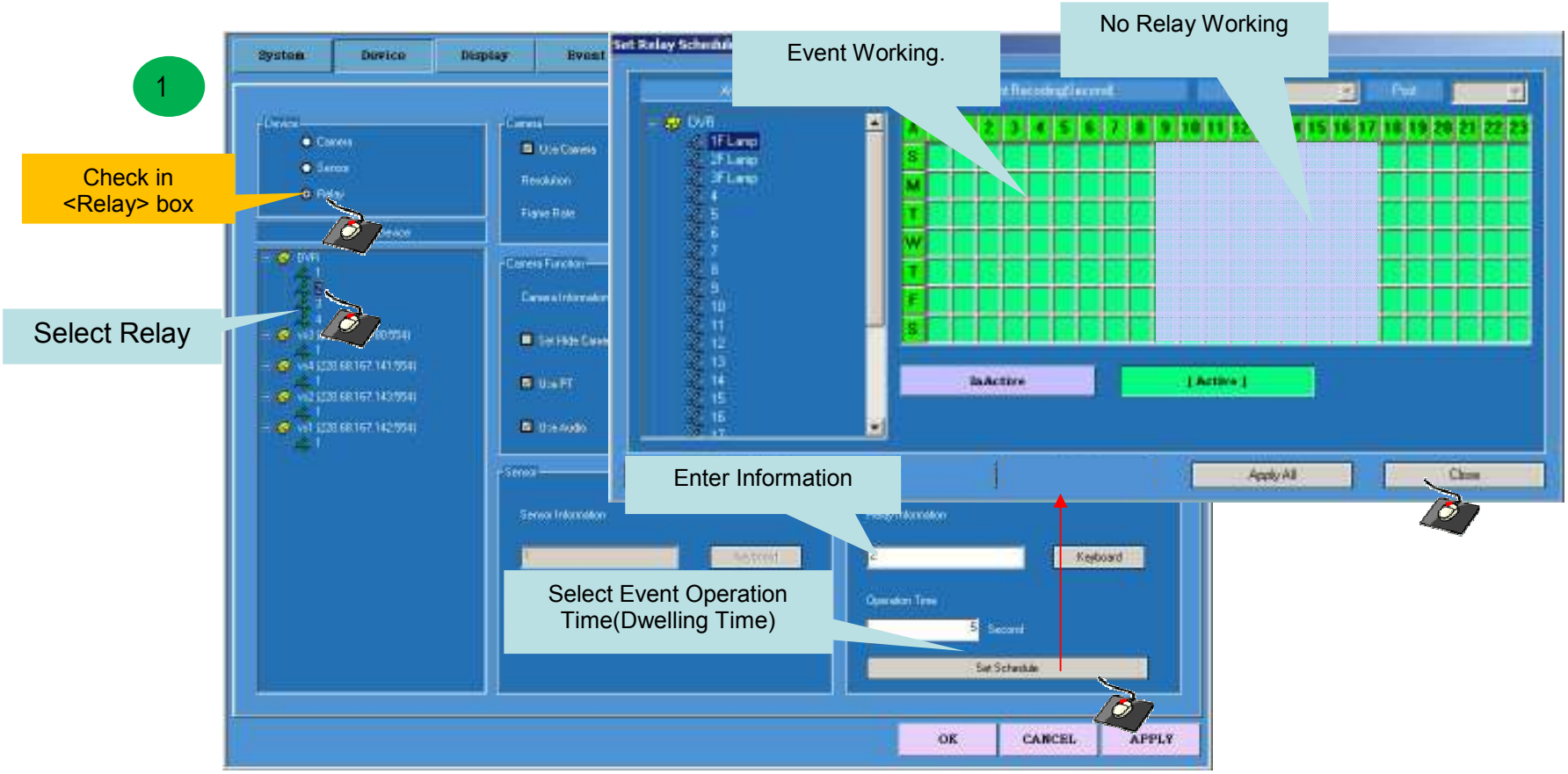

<N.B> NC : Normal Close
NO : Normal Open

# System Setup

## System Setup: Device Setup/Relay Recording Setup

### Setup Relay Schedule

Can setup <Relay Schedule> to work in certain time range.)

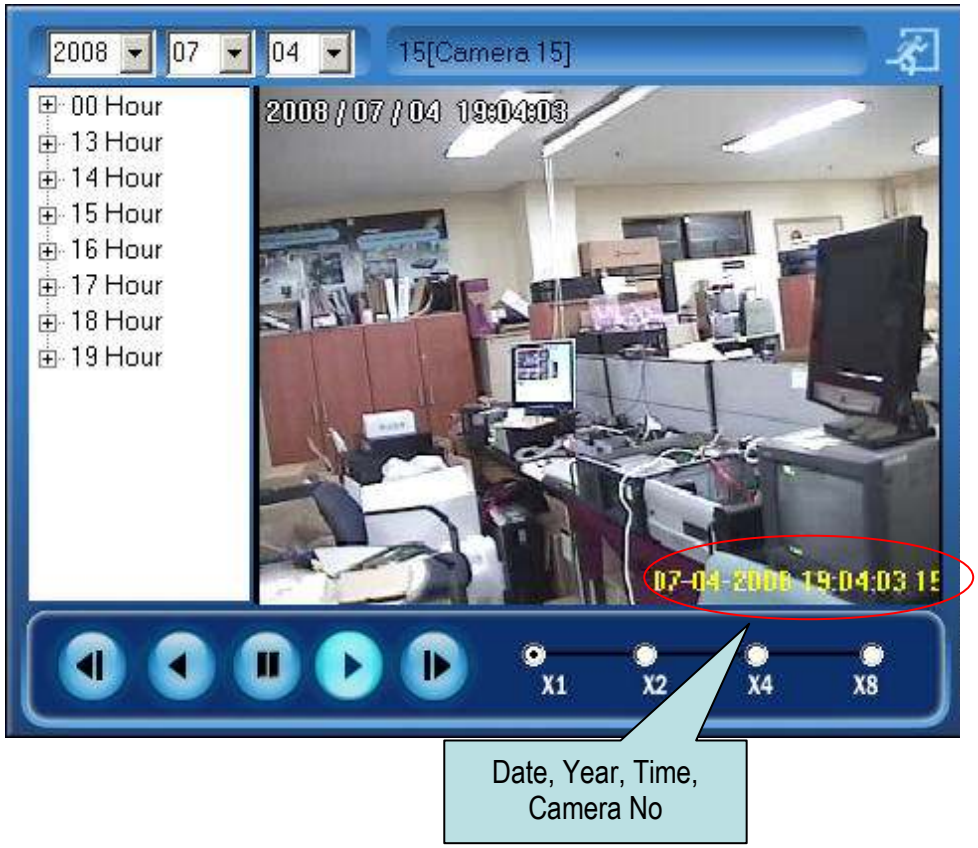


# System Setup

## System Setup: Device Setup/TDS Setup

### <TDS(Time , date stamp) Setup>

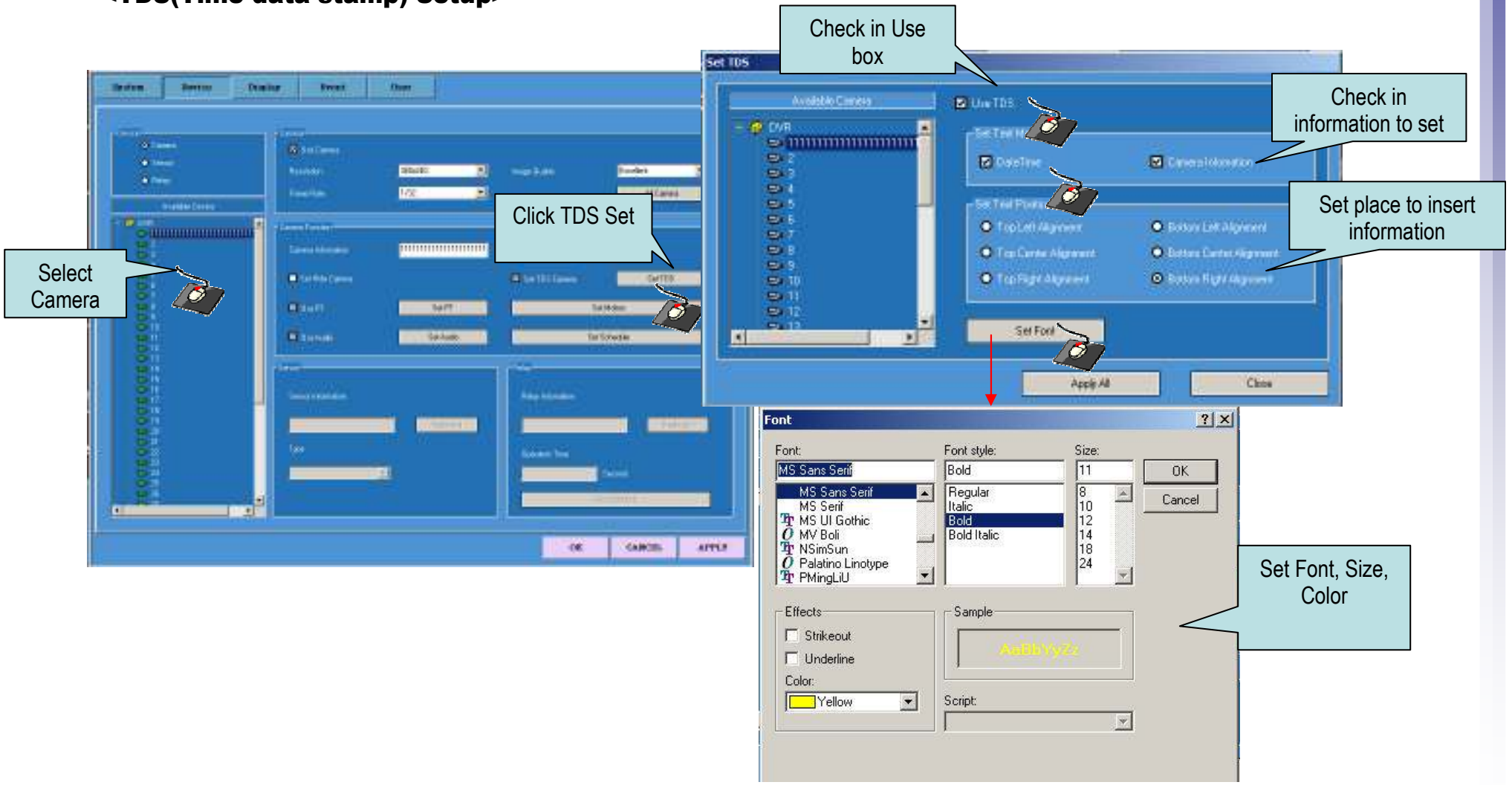
To stamp or insert wanted information(Date, Time, Camera Name and others) on recorded video data
(



# System Setup

## System Setup: Device Setup/TDS Setup

**<TDS(Time data stamp) Setup>**

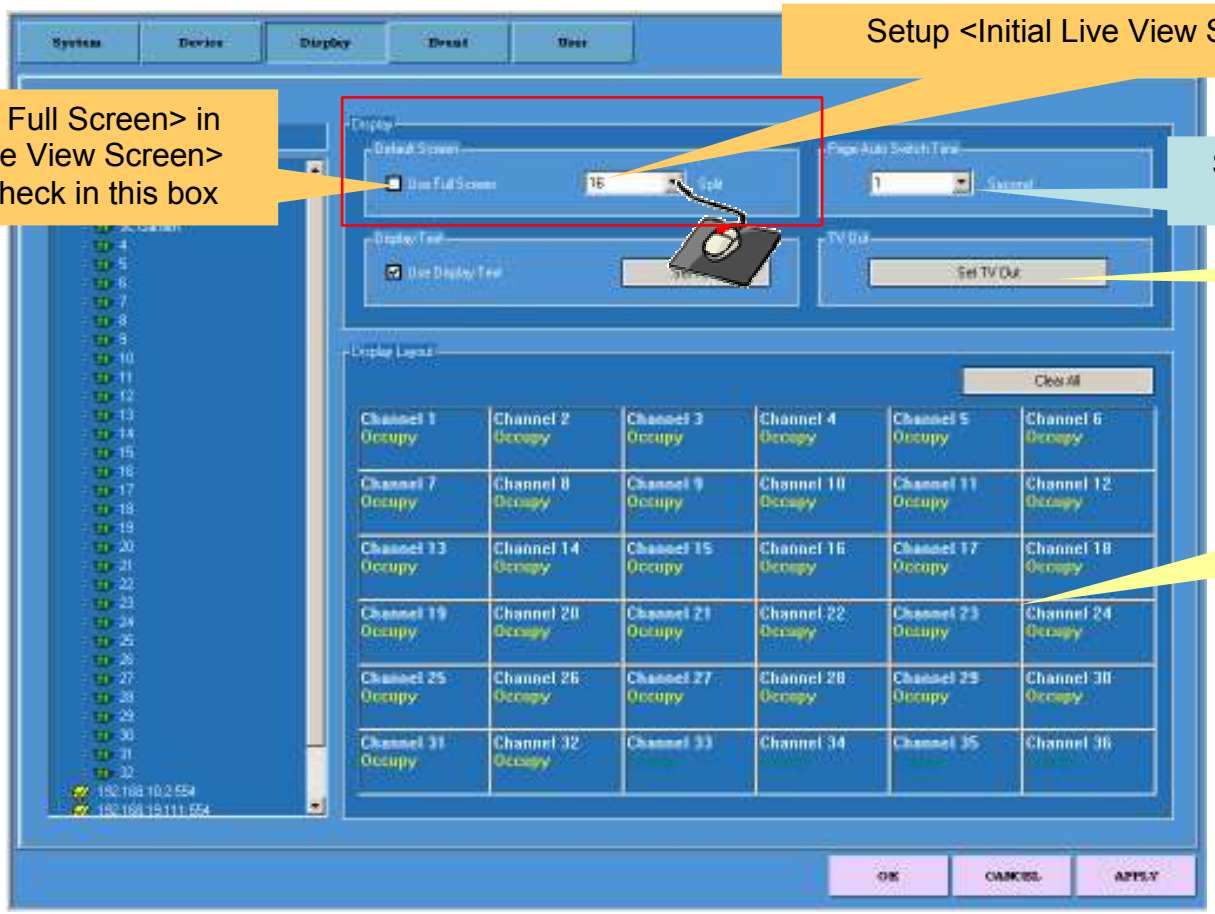


# System Setup

## System Setup: Display Setup

Go to <Setup => Display=> Default Screen>

**Please refer to <Initial Screen Setup>**




To show< Full Screen> in Initial <Live View Screen> , please check in this box

Setup <Initial Live View Screen Display Division>

Setup Page change <Dwelling Time>

Setup <TV-out>

Setup <Screen Layout> and allocate Cameras

# System Setup

## System Setup: Display Setup/TV-Out

### TV-Out Function

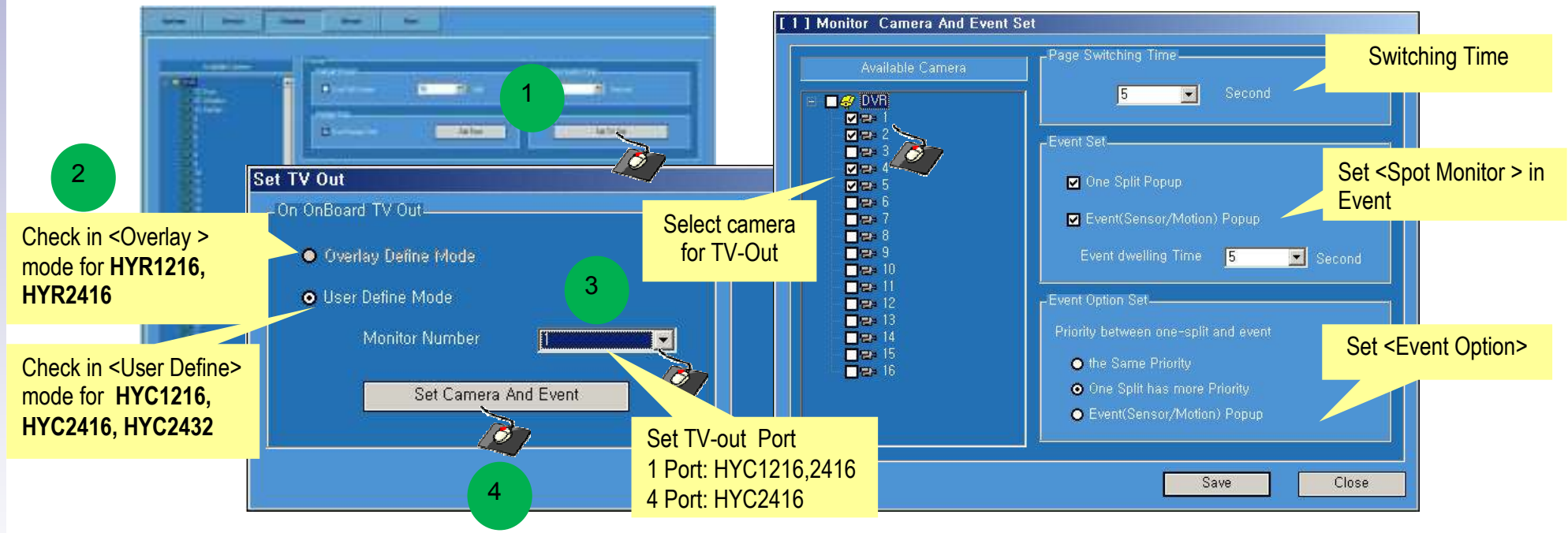
| S/W mode | 1ch Switching BD | | | | Multiplex Support BD | | |
|---|---|---|---|---|---|---|---|
| Model | HYC1216 | HYC2416 | HYC2432 | HYC4832 | HYR1216 | HYR2416 | HYR4816 |
| | | | | | | | |
| TV-out Extension board | | | Vout3204 | Vout3204 | | | Vout1604 |
| Port No | 1 | 1 | 4(4) | 4 | 1 | 1 | 1(4) |
| Spot Support | Yes | Yes | Yes | Yes | Yes | Yes | Yes by Tv-out BD |
| | | | | | | | |

<N.B> HYR1216, HYR2416 support the same Multiplex Screen same as VGA monitor, and 1CH Spot-out in Event.

# System Setup

## System Setup: Display Setup/TV-Out

### Setup TV-Out : Without using Vout BD



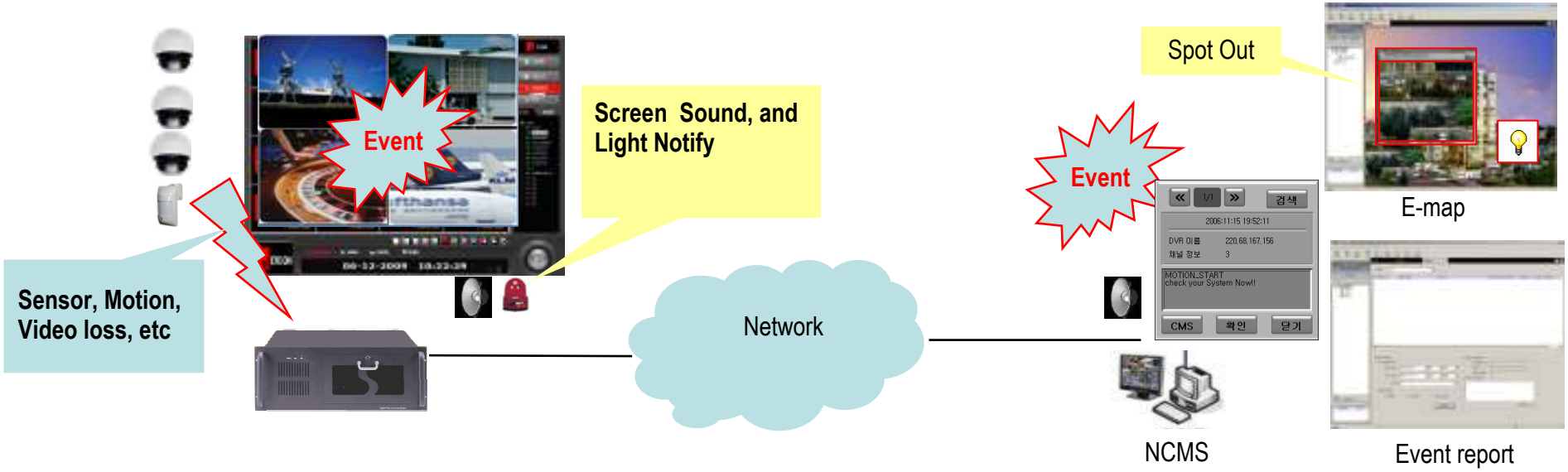

<N.B> When set <1 Spot Split Pop>(Full Screen Pop-up), in TV-out it pop-up full screen in screen change to 1 CH .

**-Event Pop-up: In Sensor or Motion detection, it show that camera in TV-out monitor (Spot-Out)**

# System Setup

## System Setup: Event Setup

Go to <Setup=>Event (Event(sensor, motion, Video loss)> for <Local Notify, Remote Notify >




<Notify Method>
Local Notify: To notify <Events> to local DVR users
Network Notify(Remote): To notify <Events> to Remote users (NCMS)

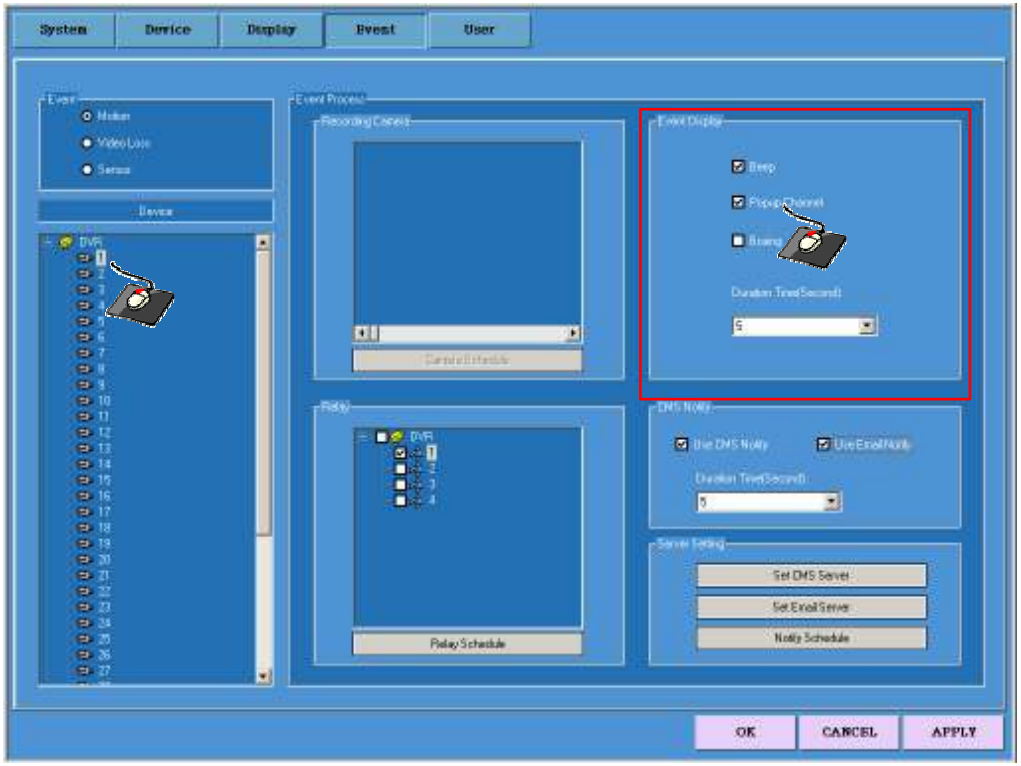
<Notify Mode>
**Local Notify: Full screen, Red box, beep, OSD color change, Spot monitor**
Network Notify: E-mail, Video(Event Video View, Video pop up), Sound, Map pop up, etc

# System Setup

## System Setup: Event Setup/Motion Notify

### Setup Motion Event Notify

Setup <Alarm Out> in Motion Event




### Setup Motion Event Notify

Full Screen(Pop-up Output)
: In Event, Mux screen(same as VGA monitor) changes to 1 CH Screen

□ Setup plural cameras to control

: Please setup several cameras to check and control in hand.

-Beep :Give <Beep> sound in.

Border: Give Red Border Line to Video

Duration Time: Set <Dwelling Time > for Event

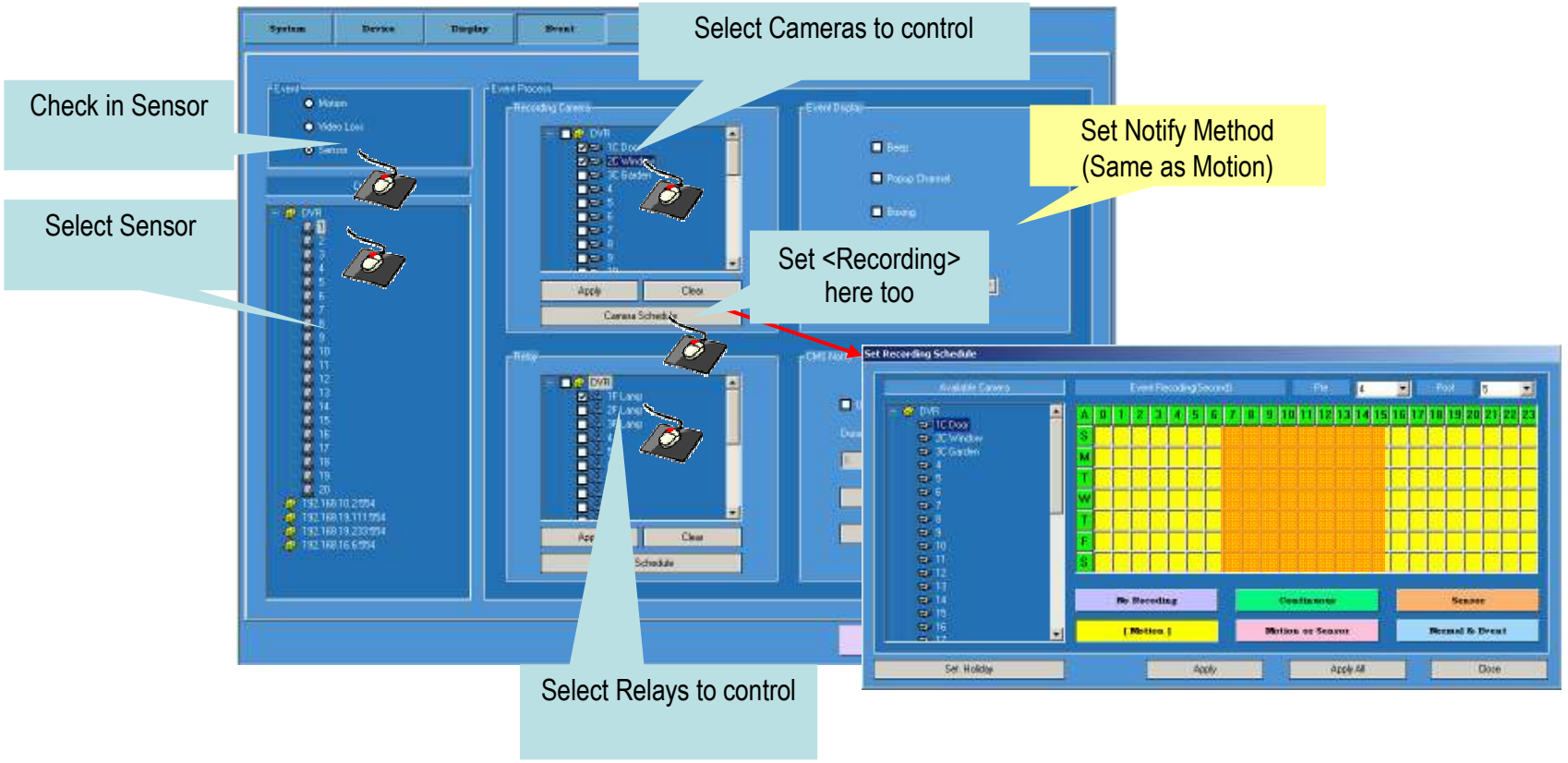
□N.B: When <Duration Time> is not set, users have to double click to go to original Screen.

# System Setup

## System Setup: Event Setup/Sensor Notify

### Setup Sensor Notify

Setup <Alarm Out>(Camera & Relay) in Sensor Event

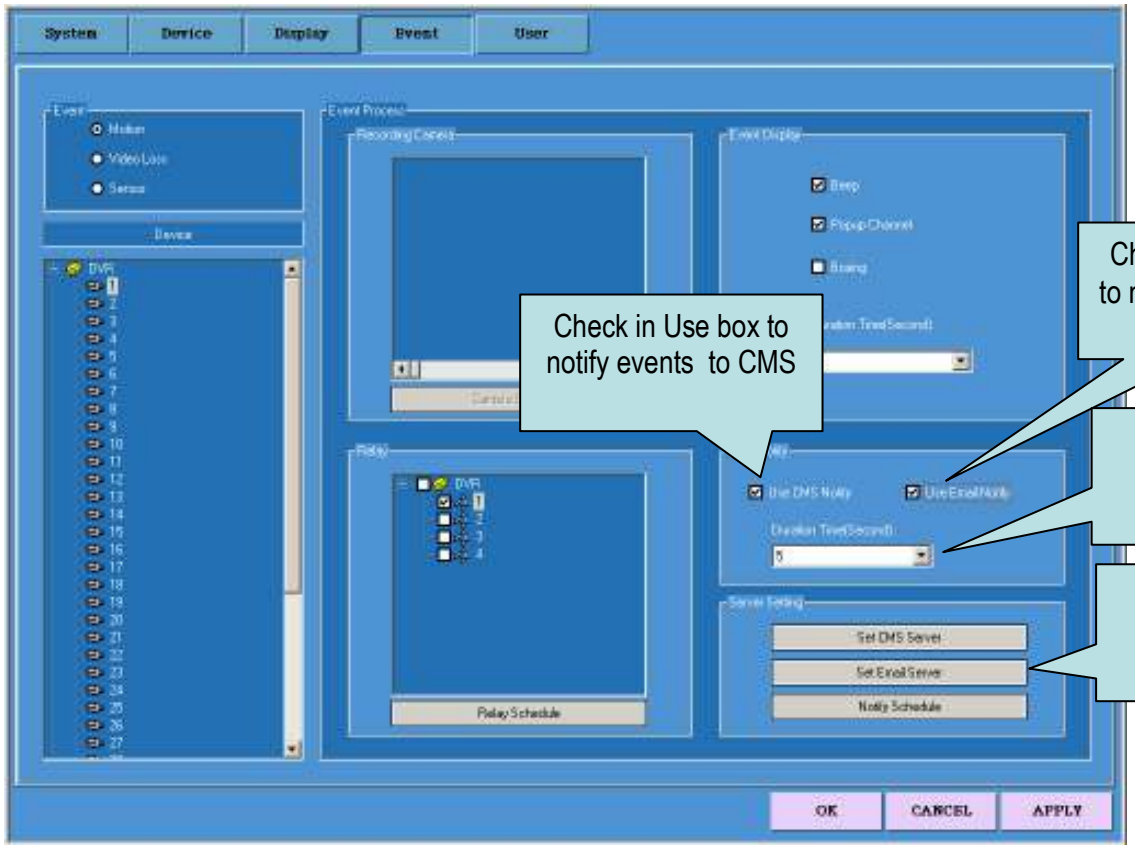


# System Setup

## System Setup: Event Setup/Remote Notify

### Setup Remote Notify

Notify to Remote Client (NCMS) in Events

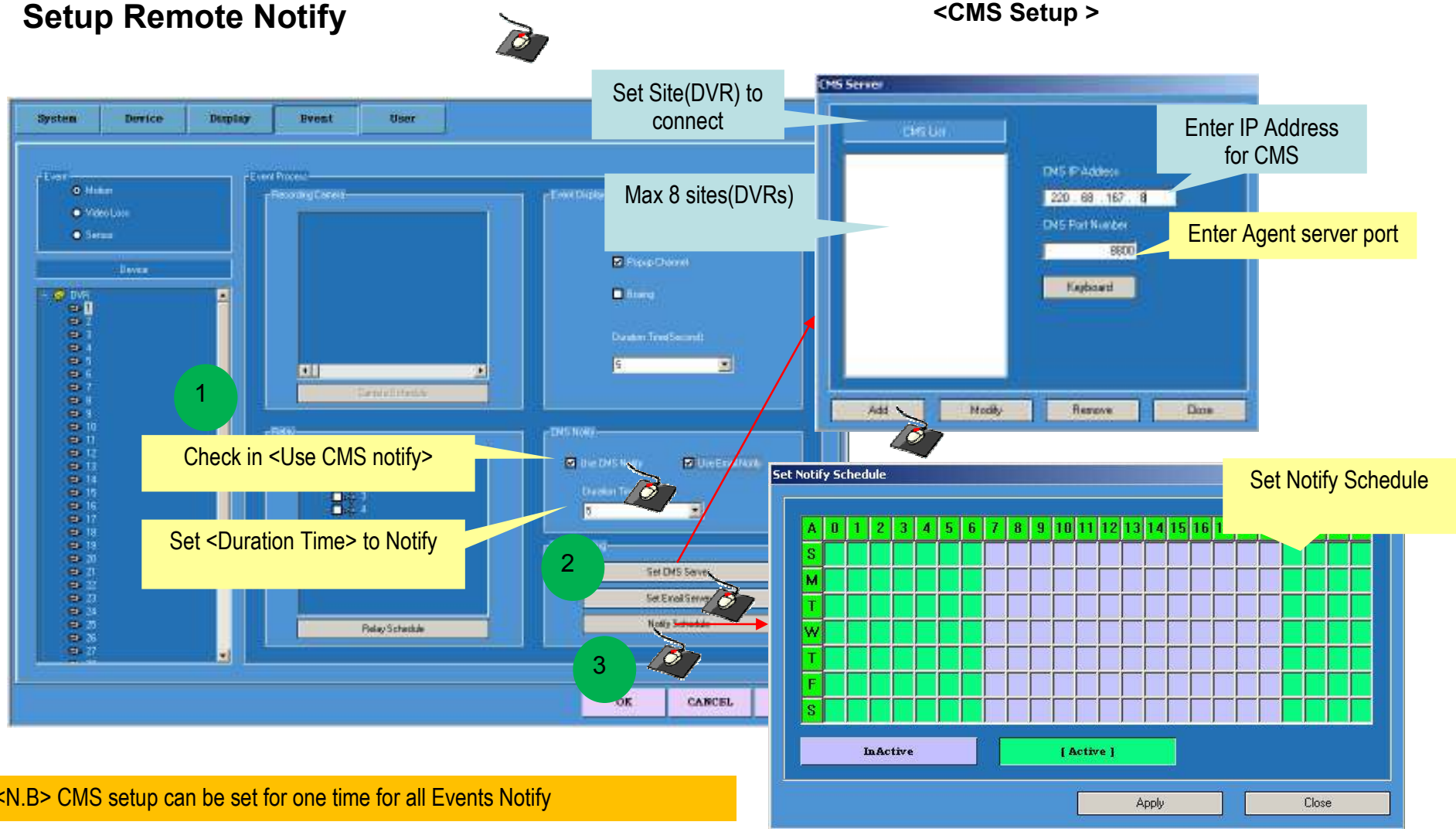



<N.B> Can not set each CMS server and schedule for each event.

# System Setup

## System Setup: Event Setup/Remote Notify

### Setup Remote Notify



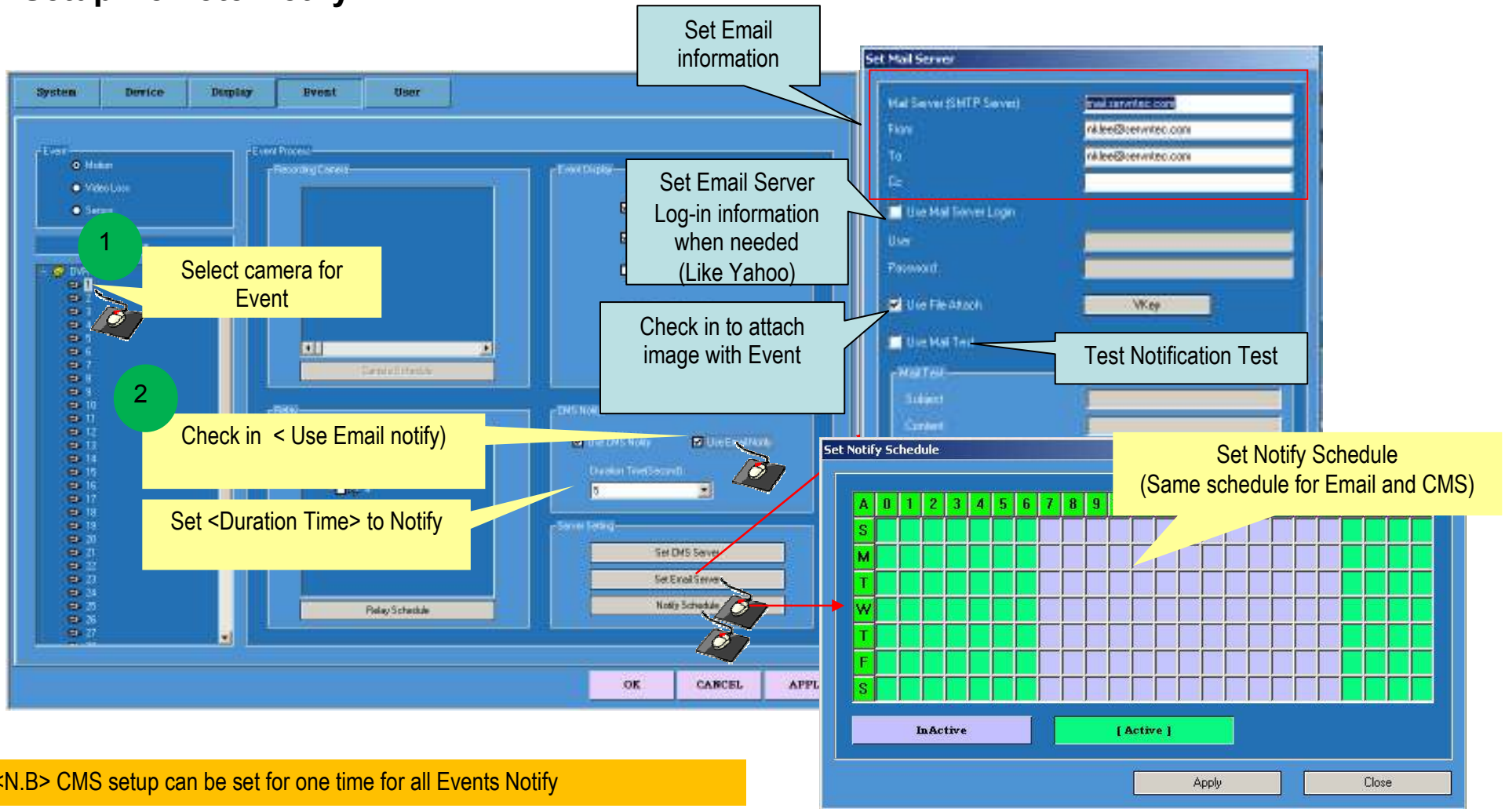

<N.B> CMS setup can be set for one time for all Events Notify

# System Setup

## System Setup: Event Setup/Remote Notify

### Setup Remote Notify

<Email Setup >




<N.B> CMS setup can be set for one time for all Events Notify

# System Setup

## System Setup: Event Setup/Remote Notify Configuration

Through Agent Client (DVR) and Agent Server (NCMS) all Events data are exchanged..

All System/Relay control Data are exchanged through Agent Client (DVR) and Agent Server (NCMS)

# System Setup

## System Setup: Event Setup/CMS Setup

Sequence

1. Setup <Network Notify> like previous pages)

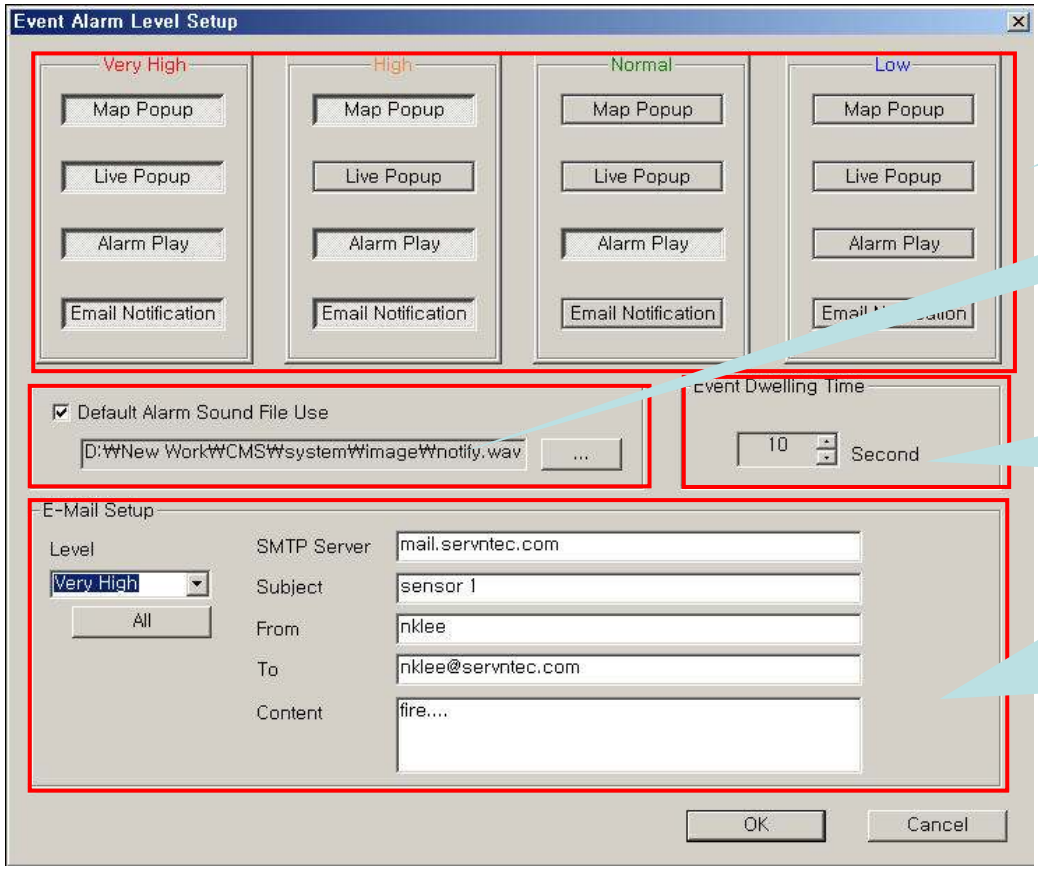
2. Setup <Event Alarm Level> in NCMS

3. Setup <Event Alarm Level>  in each event.

# System Setup

## System Setup: Event Setup/CMS Setup

Event Level Setup: Setup each event according to individual Event Scenario




**Can setup Scenario based on each Level**

**Set <Sound> for alarm (Default: Beep)**

**For <Map Pop-up> and <Event Pop-up>, can setup <Duration Time>'10 ~ 60 Second**

**Write Email information**

**For this <Email Notification> has to be set.**

# System Setup

## System Setup: Event Setup/CMS Setup

Event Level Setup: Setup each event according to individual Event Scenario

In each camera and Sensors , users can see <Event Level> by color

**When check in <Site> (DVR Name), same Event Level applies to all**

**Set each camera's Event and Event**

**Set Motion Event**

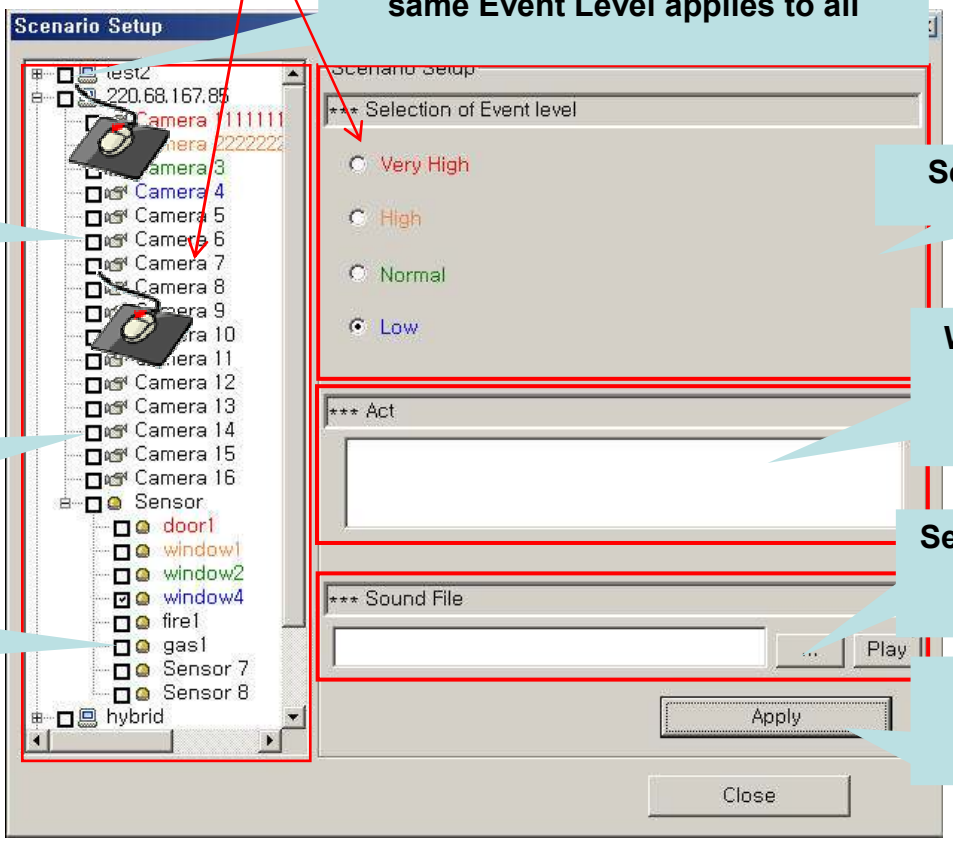
**Set Sensor Event**

**Set Event Level**

**Write some description and action in those Event**

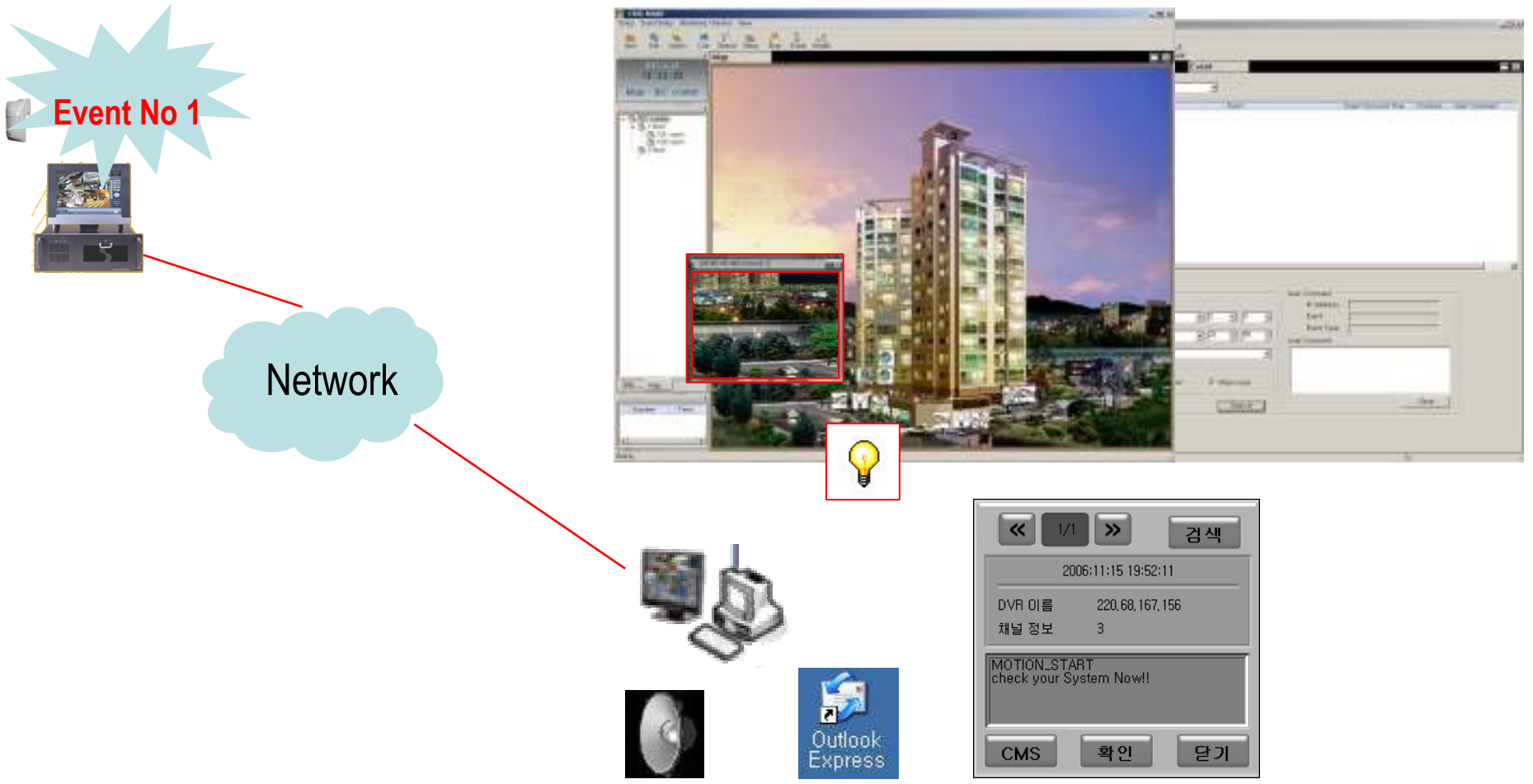
**Set Sound in Event**

**Have to click <Apply> button**



# System Setup

## System Setup: Event Setup/CMS Working Configuration



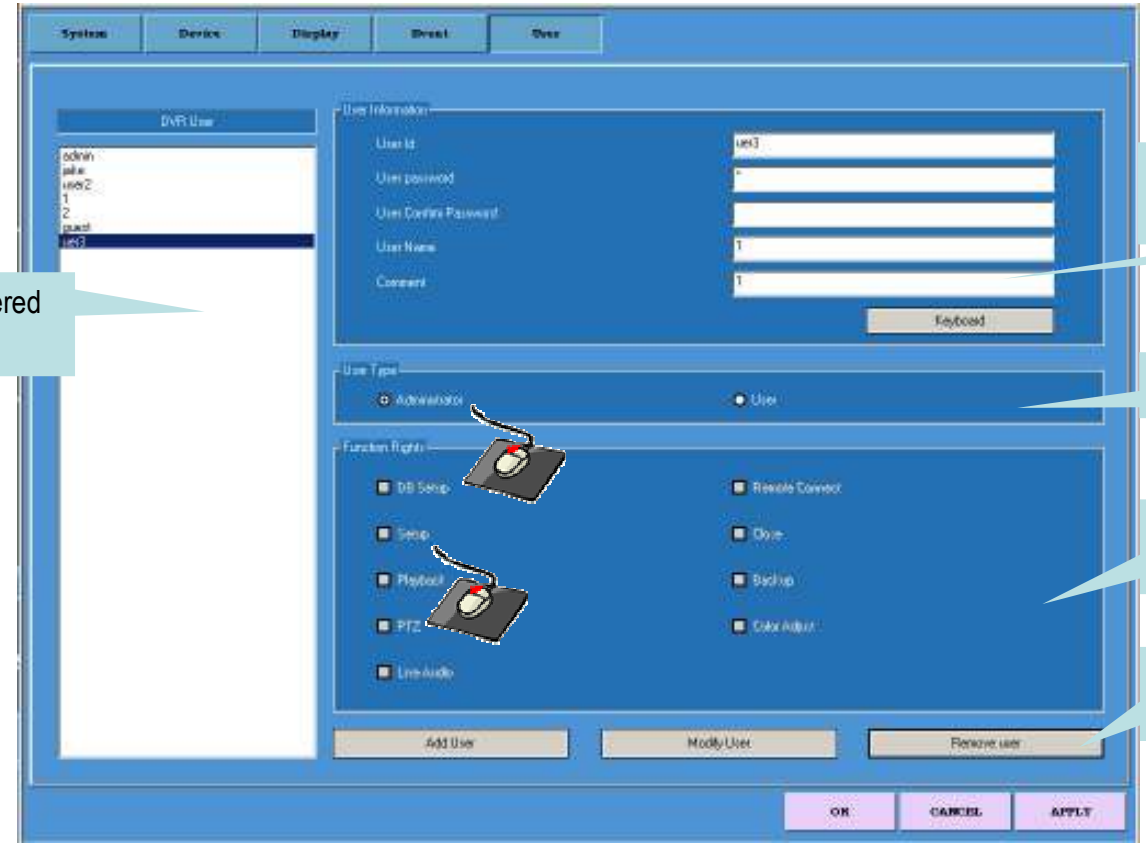
# System Setup

## System Setup: User Setup

### User Management Setup

**To manage and control each user according to User Level and Right**

<N.B> When set certain users to use <Setup>, which will apply to DVR and Remote Client too.




Show registered User

Enter User information to add and register after entering all information.

Set User Level

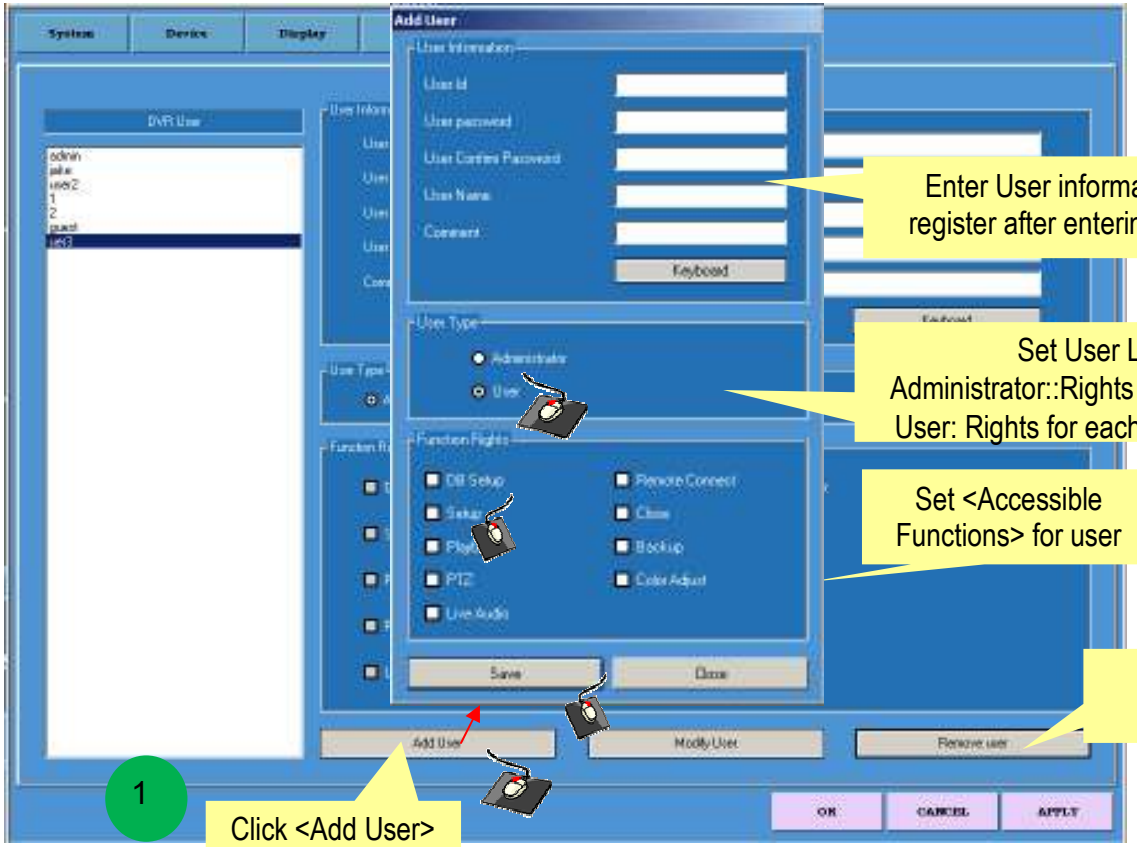
Set <Accessible Functions> for user

Add/Modify/Remove User

# System Setup

## System Setup: User Setup

### To add User

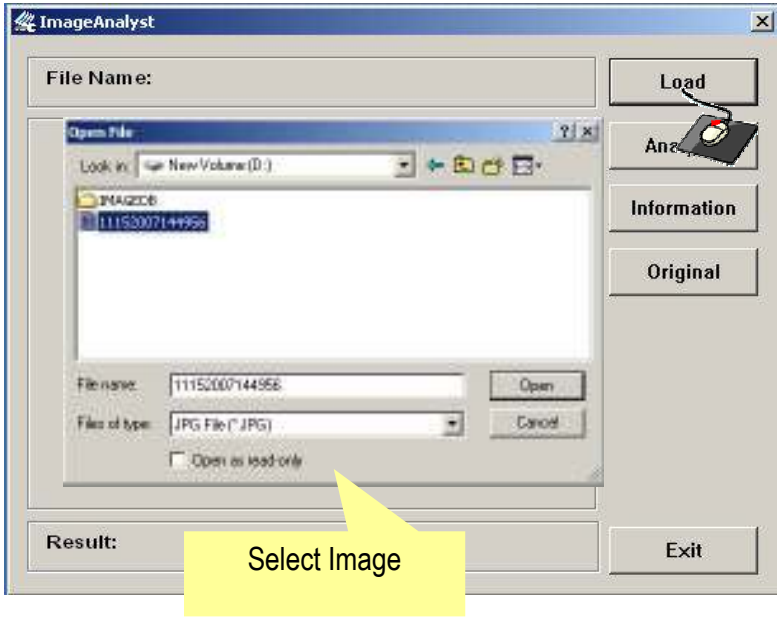


# Appendix

## 1. Image Analyst

To check the forgery of saved JPEG Image

**To Run C:\program files\DVR\ImageAnalyst**



# Appendix

## 1. Image Analyst

**When <Result : This is an original image> > is shown, this is real image**

When clicking <Information>, Site Name, Camera No/Name, Recording Time, Copy time, and Computer information are shown.

**This is not an original image : This means that image is not real image and forged.**

<N.B >When clicking this, any information is not shown.

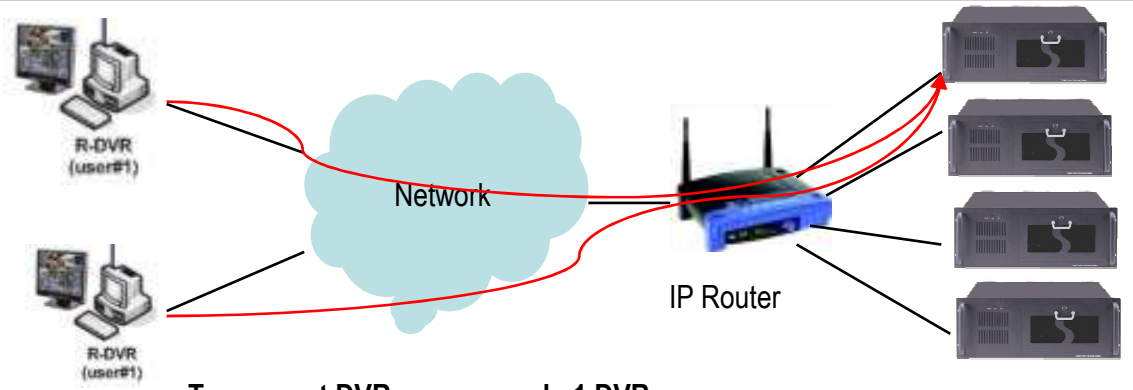
# Appendix

## 2. How to setup and use Router

To use <Router> for IP distribution, users have to setup <IP Router> for DMZ, Port forwarding.

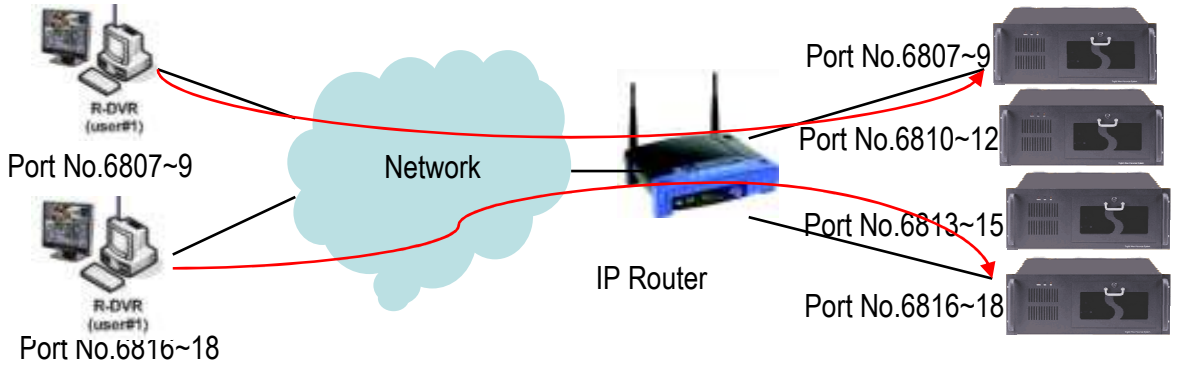
Each setup ….please follow the manual of IP Router

**DMZ**




To connect DVR, can use only 1 DVR.

**Port Forward**




To connect DVRs, can go multiple DVRs by each port by <Port Forwarding>

# Appendix

## 2. How to setup and use Router

### Setup Linksys Router

**Log in Linksys Router : Please study Linksys Manual for log-in**

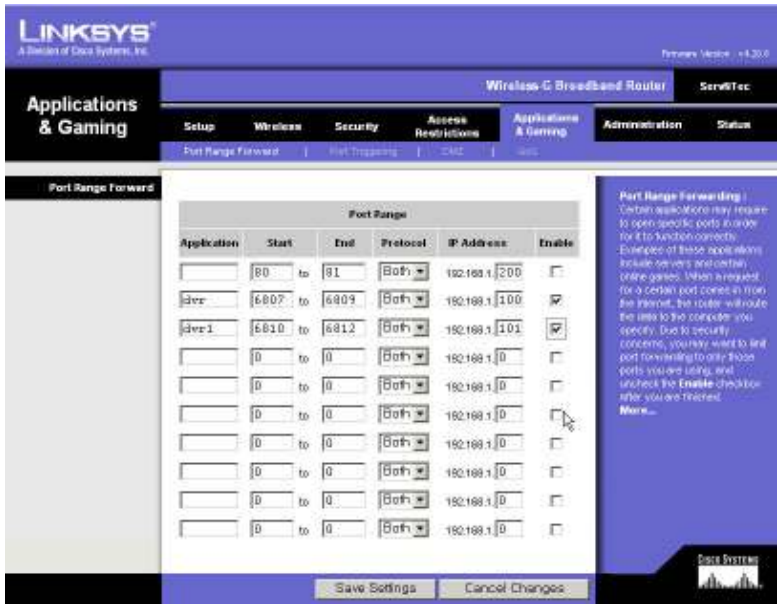
Log-In to Router.
Enter default ID in IE as router manual.
Ex: (192.168.1.1)(Please refer to Router Manual to find this)
Enter <User Name> and <Password> in Log-In Window below
(Default: , Password: admin)

# Appendix

## 2. How to setup and use Router

To <Port-Forward>

<Applications & gaming>=> <Port Range Forward>




Application : Application Name
Start ~ End: Enter port range (DVR default: 6807~6809)
IP Address:  Enter Fixed IP address
Enable:  Check in <Enable>
<Save Settings> and Exit.

# Appendix

## 2. How to setup and use Router

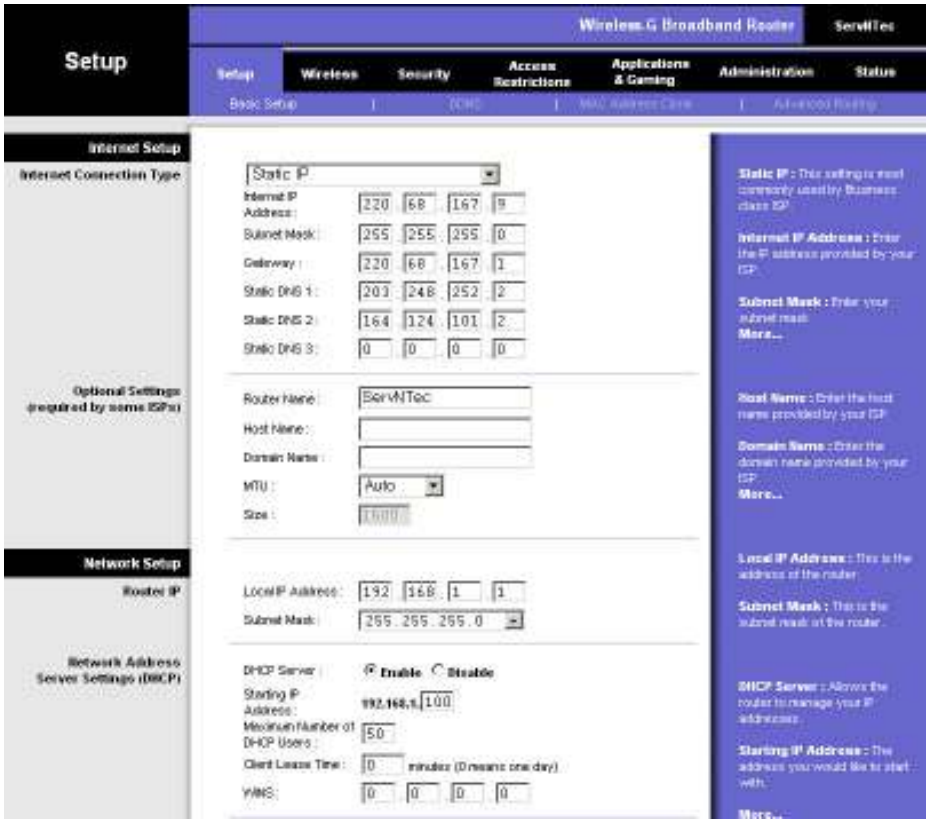
### To Setup DMZ

<Application& Gaming>=> <DMZ>

Check in <Enable>
DMS Host IP Address: Enter Fixed IP
<Save Settings> and exit

<N.B> Can not use <Port forward> and <DMZ> together

<N.B> DHCP Setup




Like the Pic above, users have to setup <disable> DHCP, and other IP as Fixed IP. Or when using <able> DHCP, users have to use different IP from <DHCP> range IP.

# Appendix

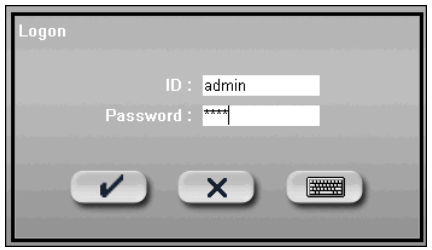
## 3. Recover <ImageDB>

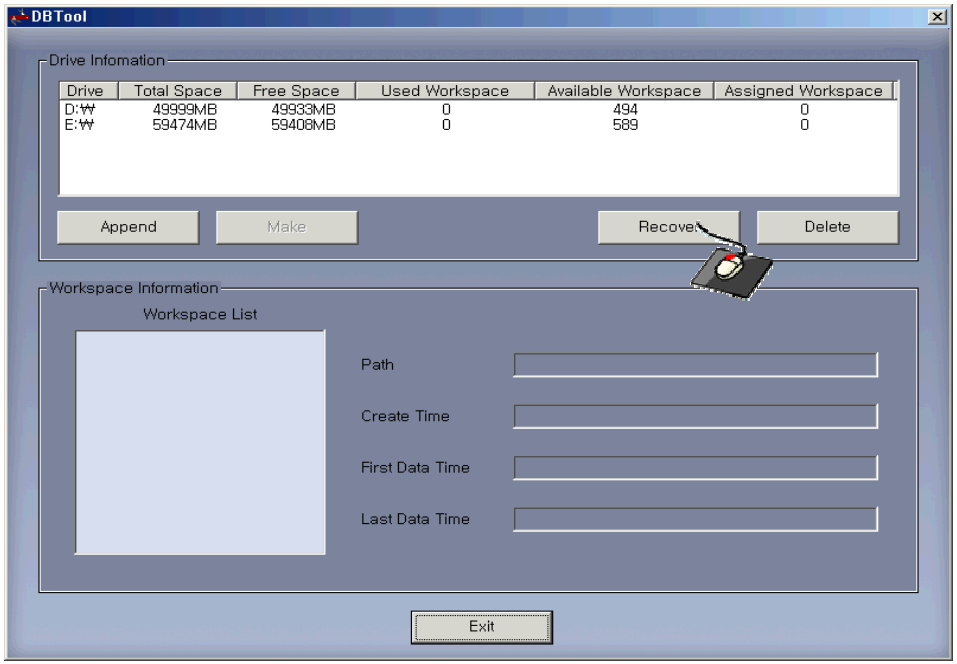
### To recover <ImageDB>

**When <ImageDB> is corrupted or <Playback> is not working, run <Image DB Recovery>.**

**<N.B> When HDD is broken, can not recover it.**

C:\program files\dvr\NEDBTool,exe□ □□



# Appendix

## 3. Recover <ImageDB>

**Fast Recovery**
Based WSxxxxxx.idx (Index File),it recovers < Timeinfo> folder and <IMAGEDB file> in C:\IMAGEDB folder

**Normal Recovery**
: Based WSxxxxxx.dat(Dat File),it newly recovers < Timeinfo> folder and <IMAGEDB file> in C:\IMAGEDB folder. It takes more time. )

<Start Recovery>
After this <OK> message will be shown..

<N.B> In <Recovery> , do not do other jobs.

**<N.B> In C:\IMAGEDB**

It has all needed information like <saved date, Time Info, Driver Name and others>, which make <playback> faster
**IMAGEDB**: WSxxxxxx.dat, WSxxxxxx.idx
**WSxxxxxx.dat :** Real Video data
**WSxxxxxx.idx : Index file for data location and others**

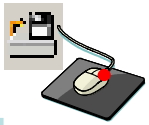
# Appendix

## 4. Direct Backup

### How to Direct backup

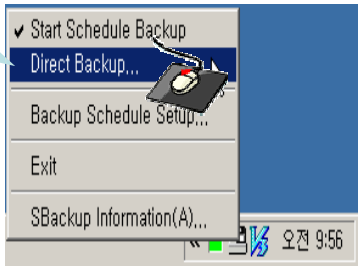
When there is an error in Backup or to backup the data in certain range of time, fast, please use this.

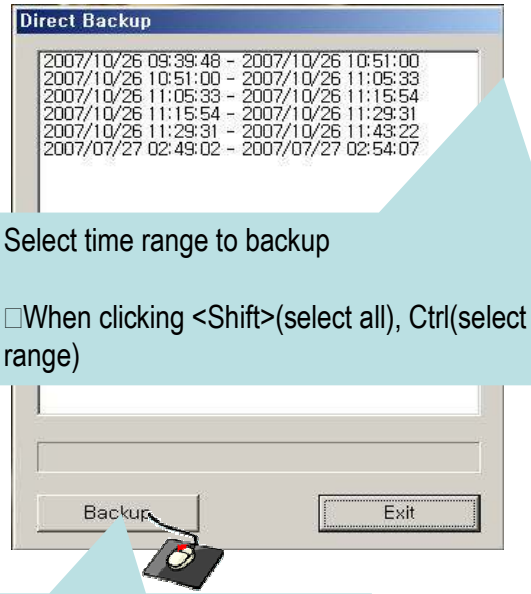
<N.B> For this, please stop <DVR> first



In Tray bar, click the right button of <Schedule backup icon>.

Select Direct backup

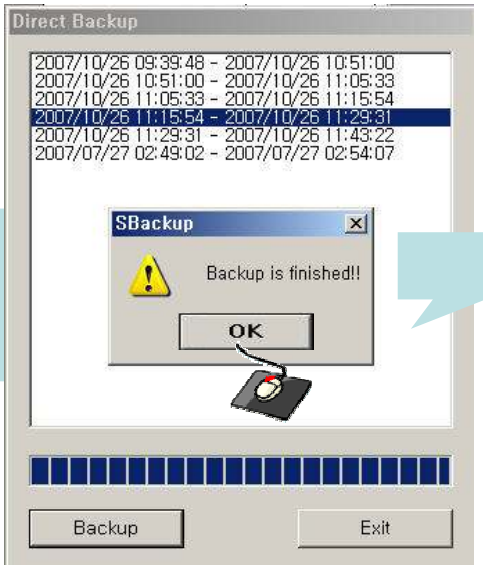



Select time range to backup

□When clicking <Shift>(select all), Ctrl(select multiple range)

Select folder to save




OK

# Appendix

## 5. Copy Data files

### Copy Data files and backup

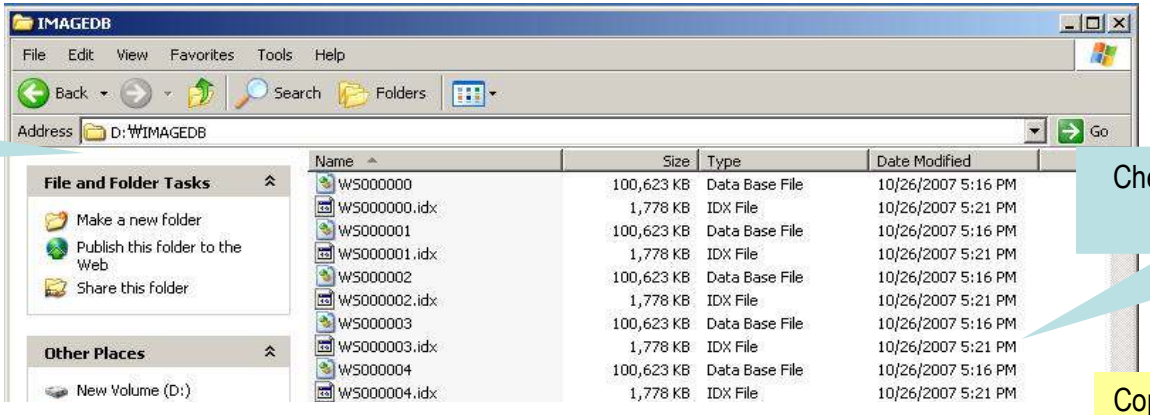
**Administrator can access and copy each <ImagDB> in each folder, and copy them to wanted places.**

Please use this for only urgent cases or

- When HDD has some problem
- When System has some problems, and have to backup to HDD

- When Administrator needs this.

Go to <ImageDB> folder


IMAGEDB
File Edit View Favorites Tools Help
Back Search Folders
Address D:₩IMAGEDB
Go
File and Folder Tasks
Make a new folder
Publish this folder to the Web
Share this folder
Other Places
New Volume (D:)
Name Size Type Date Modified
WS000000 100,623 KB Data Base File 10/26/2007 5:16 PM
WS000000.idx 1,778 KB IDX File 10/26/2007 5:21 PM
WS000001 100,623 KB Data Base File 10/26/2007 5:16 PM
WS000001.idx 1,778 KB IDX File 10/26/2007 5:21 PM
WS000002 100,623 KB Data Base File 10/26/2007 5:16 PM
WS000002.idx 1,778 KB IDX File 10/26/2007 5:21 PM
WS000003 100,623 KB Data Base File 10/26/2007 5:16 PM
WS000003.idx 1,778 KB IDX File 10/26/2007 5:21 PM
WS000004 100,623 KB Data Base File 10/26/2007 5:16 PM
WS000004.idx 1,778 KB IDX File 10/26/2007 5:21 PM

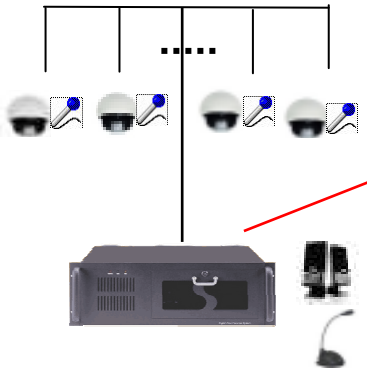
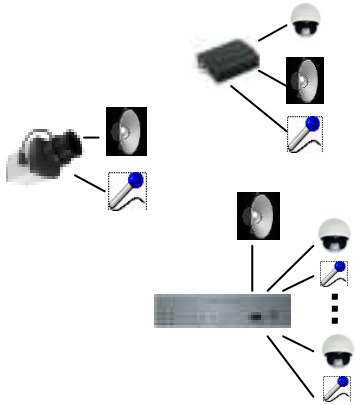
Checking date for final writing, and select data to copy.

Copy them….

# Appendix

## 6. How to use 2-Way Audio with IP products

### 2-Way Audio configuration

| DVR system | NCMS | IP product |
|---|---|---|
|  | |  |
| Connecting DVR system with IP Product, users can use 2-Way Audio<br><br>For Video server, IP camera, users have to setup 2-way. | NCMS can do 2-Way Audio with DVR and IP each IP prodocts too. | Can not do <2-way Audio> directly with IP products, only with NCMS. |
| <N.B> NCMS do <2-way Audio> by direct connection with IP products | | |

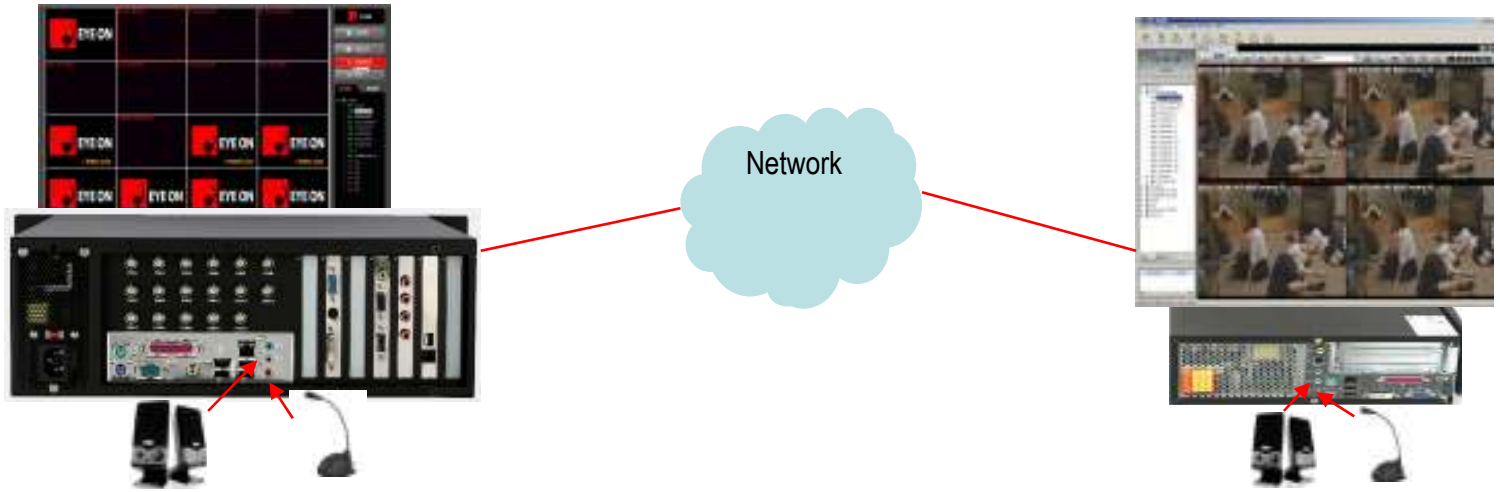
# Appendix

## 7. How to use 2-way Audio(DVR-NCMS)

How to connect  and use 2-Way Audio for DVR and NCMS

For 2-Way Audio communication, CMS and  DVR  system use each system's sound card.

<Hardware Connection>




Connect and speaker and Microphone in DVR system's sound card

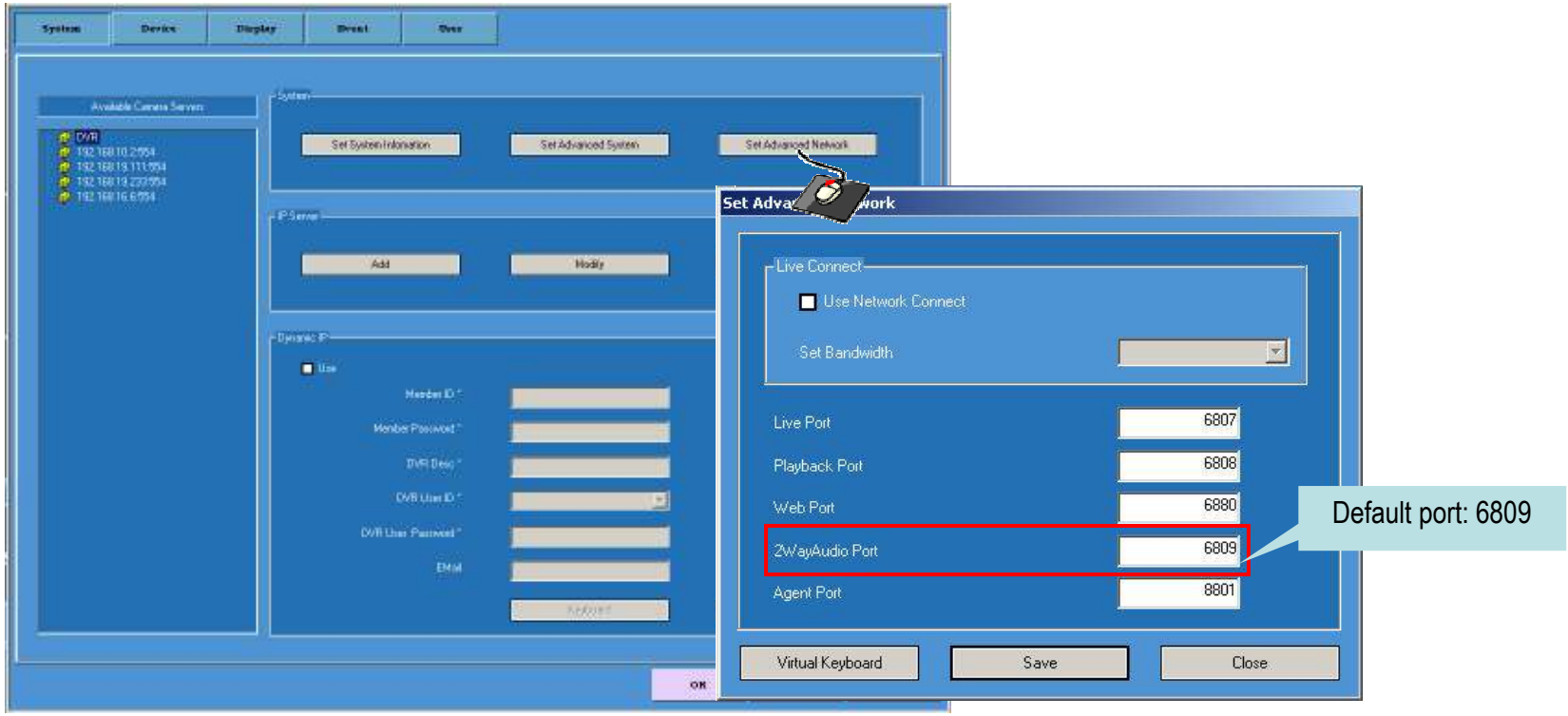
Connect and speaker and Microphone in NCMS system's sound card

# Appendix

## 7. How to use 2-way Audio(DVR Setup)

SETUP

Go to <Setup=> System> (Two way Audio Server Port  Setup)

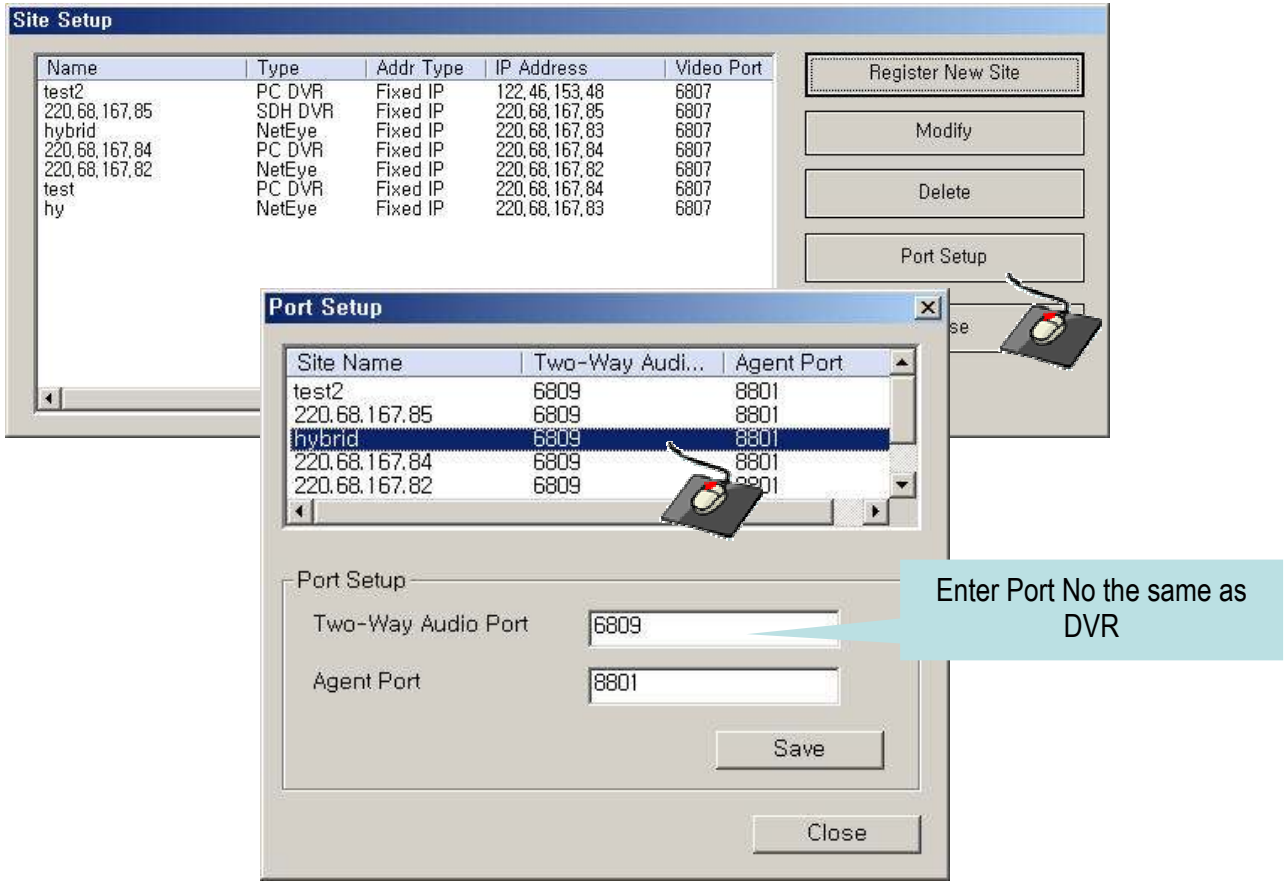


When DVR system runs, in tray bar, <RDVR Two-way server> runs automatically.

# Appendix

## 7. How to use 2-way Audio(NCMS Setup)

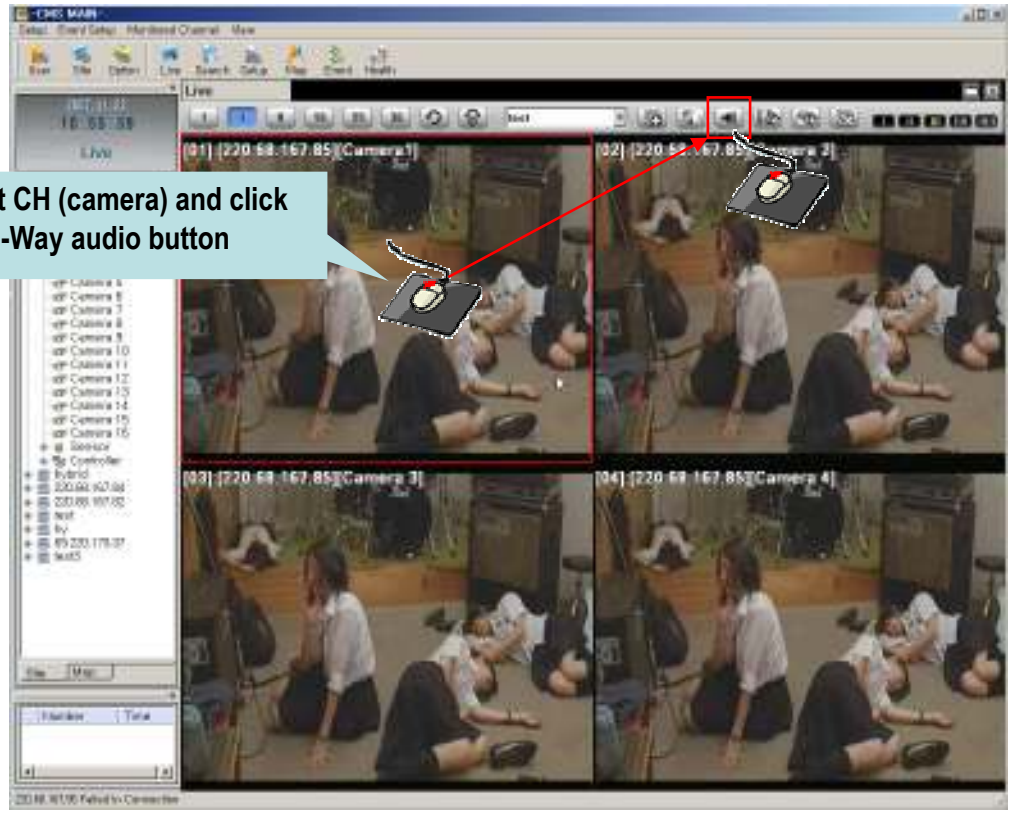
Go to NCMS <Site Setup> and setup 2-way server port

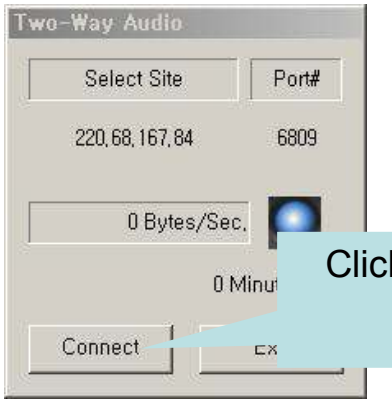


# Appendix

## 7. How to use 2-way Audio(NCMS Setup)

### 2-Way Audio(With DVR)



# Appendix

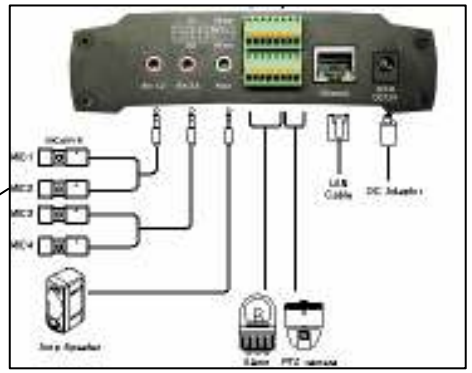
## 7. How to use 2-way Audio(IP product Setup)

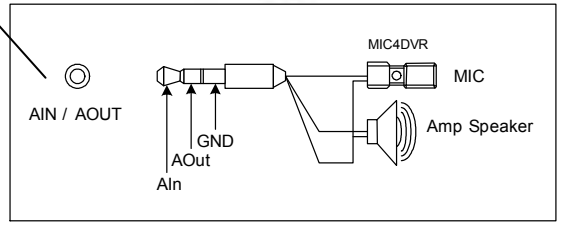
### 2-Way Audio for DVR and IP Products

**Setup IP Products 2-way Audio connected with DVR**

<Hardware Connection>

Network






Connect and speaker and Microphone in DVR system's sound card

IP product

# Appendix

## 7. How to use 2-way Audio(IP product Setup)

### 2-Way Audio for DVR and IP Products

Setup=> device => set Audio □□□ Audio□ □□

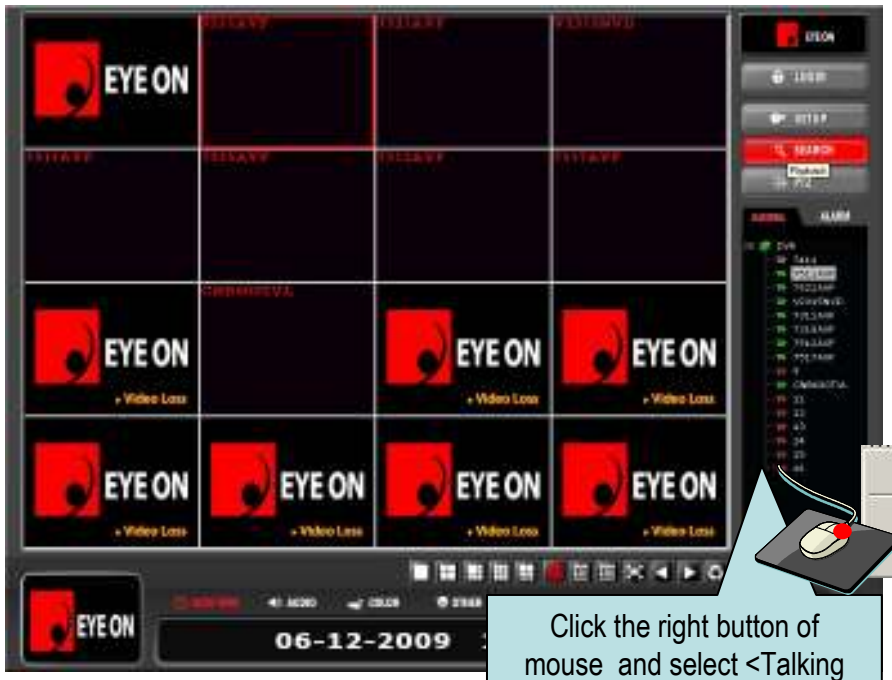
# Appendix

## 7. How to use 2-way Audio(IP product Setup)

### 2-Way Audio for DVR and IP Products

In IP product, users have to select IP products first and hear Live Audio and select <Talking with> for 2-way audio

To use Speaker in IP product (2-way Audio)


EYE ON
06-12-2009
Talking with ...
Disconnect
Click the right button of mouse and select <Talking with> to use 2-way audio. This goes to speaker of IP products

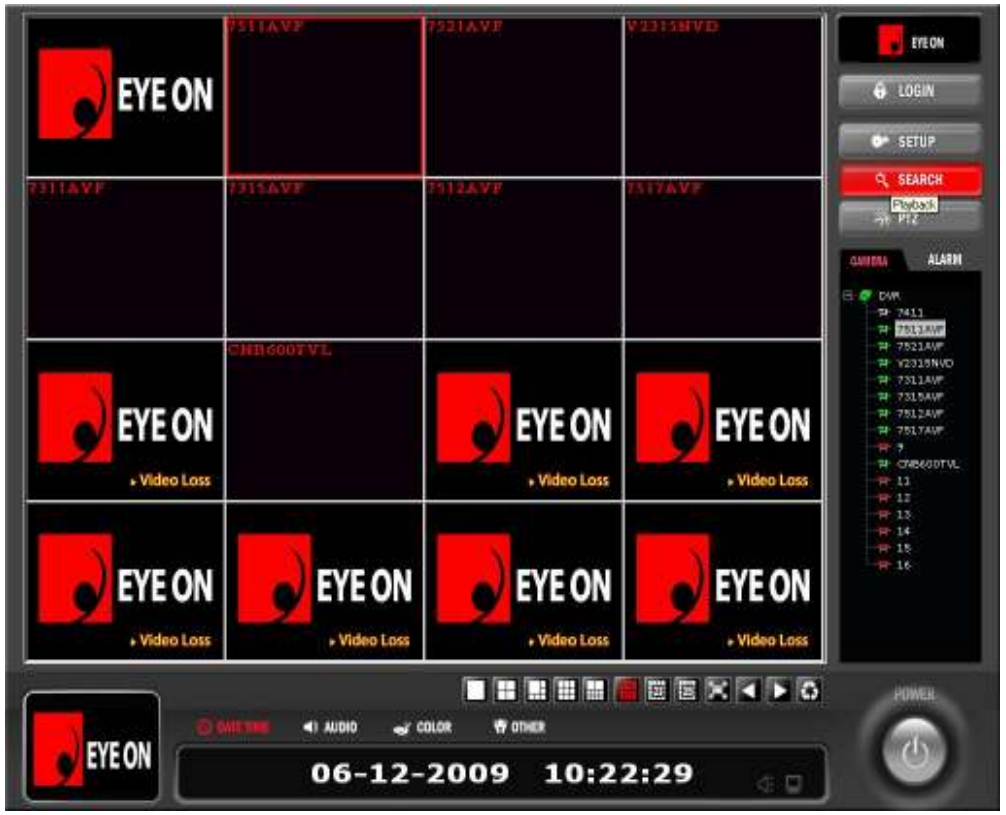
Hear Live Audio in IP products

# Appendix

## 8. Go out to Window Mode to setup and manage <Window>

To protect DVR security, users can not go to Window from DVR.

To go out to Window to manage and setup Window properties, users have to do this below




In <Login> status in DVR, click the screen in <live View> window

And enter **<TAB key => admintoolexit => TAB key>**
**or < Alt+F2>**

By this, administrator can go out to Window Mode..

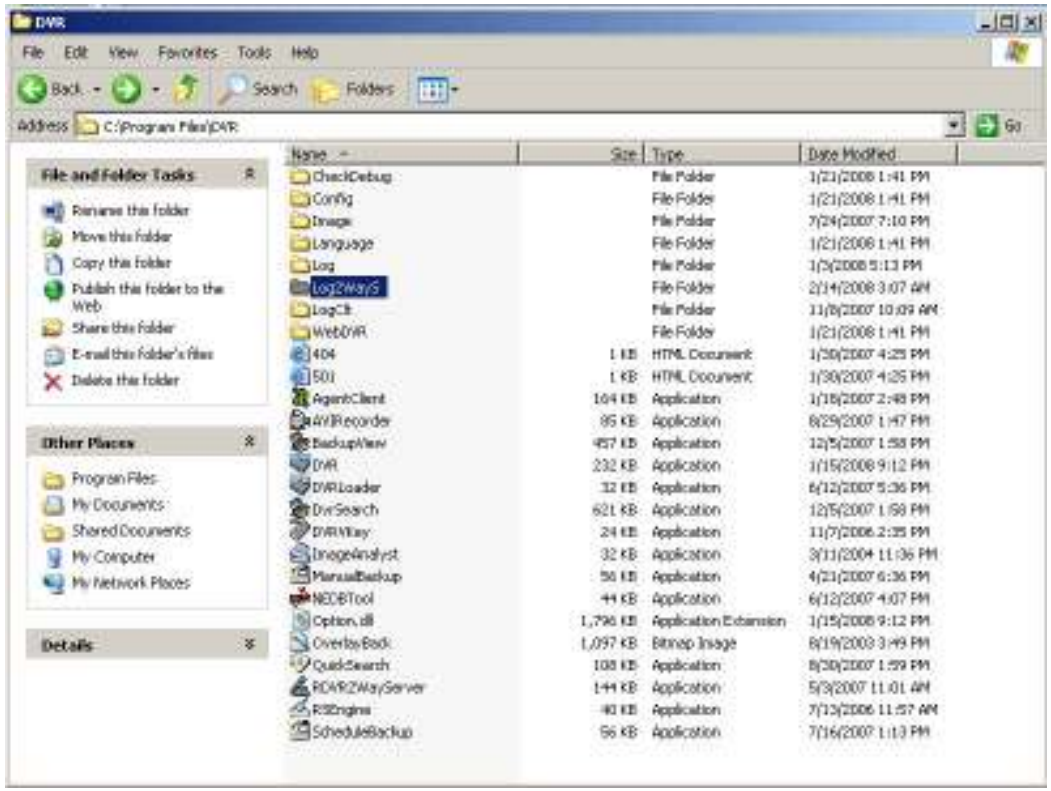
<N.B>
Can not use Window Function keys except above.

# Appendix

## 9. DVR SW and Folder description

All DVR SW are installed In C:\program files\DVR.

<N.B> All system file are installed in  System Directory




## Folder Description

Log: system log, event log, network log

Log2wayS: 2way Audio Log
Config: DVR Configuration files

Image: DVR image

Language: Language file(Menu) in DVR

# Appendix

## 10. Exe File Description

### EXE File Description

| EXE file | Description |
|---|---|
| | To load and run <ImageDB check and Recovery,DVR,exe, SEngine.exe, Schedulebackup.exe><br><N.B>This has to run only in starting DVR, when runs again, that can make a problem.. |
| | Run DVR program(main, setting) |
| | Search Data |
| | Make ImageDB |
| | Check <Watermark> |

# Appendix

## 10. Exe File Description

### EXE File Description

| EXE file | Description |
|---|---|
| | Make AVI file |
| | Run by DVR Loader, and run <Schedule backup, Direct backup> SW. (Icon is running in Task bar) |
| | To Manual backup. |
| | To search Backup data in Backup SW |
| | To search Event and can see <System log, event log> |

# Appendix

## 10. Exe File Description

### EXE File Description

| EXE file | Description |
|---|---|
| | Virtual key program |
| | To give Event Data to client program<br>(Shown Icon in Tray Bar) |
| | SW to support 2-Way Audio<br>(Shown Icon in Tray Bar) |
| | To access <imageDB> by Remote Client<br>(Shown Icon in Tray Bar) |